WAVE ELECTRONICS, DEPT 1 Buccleuch St, Barrow-in-Furness, Cumbria

TURN YOUR COLOUR MONITOR INTO A **FULL COLOUR T.V.**

This MP-3 is an excellent unit which fits underneath your monitor and allows TV reception and also allows the use of other video games consoles!

3 versions available Please check monitor model number.

CTM640 - £54.99 - Model MP-3 CTM644 - £49.99 - Model MP-3PSU CM14 - £59.99 - Model MP-3+

HIGH ENERGY GAME PACK!

Light Corridor, Mystical, Crazy Cars 2 Pinball Magic & Shufflepack Cafe on disk for only £9.99

INTEGRAL GAME PACK!

Lotus Esprit, Toyota Celica, Super Scrabble, Super Cars on disk for only £6.99

LES COLLECTORS GAME PACK!

Switchblade, Supercars, Show of the Beast on disk for only £9.99

Lotus Esprit, Ghouls 'N' Ghosts,

	promountains
LEADS & CABLES	
CTM to Megadrive£12.99	Mo
CTM to Spectrum +2/+3£12.99	Ou
CTM to Megadrive 2£17.99	3.0'
CTM to Amiga £12.99	
CM14 to Megadrive£14.99	3.0'
CM14 to Megadrive 2£18.99	Sof
CM14 to Amiga£14.99	CP
CM14 to Spectrum +2/+3£14.99	-
CM14 to CD Player£4.99	10000
CPC Joystick Splitter£8.99	
CPC Joystick Splitter £8.99 Joystick Extension £8.99	
CPC to Printer 1.5M£7.99	
CPC to Printer 2.0M£9.99	F
CPC + to Printer E9.99	
CPC to Video BNC£6,99	
CPC to Video Phono£6.99	
CPC 6128 to Cassette£3.49	
Expansion Port Adaptor£9.99 RS232 to NC100£9.99	
RS232 to NC100£9.99	
RS232 to PC Null Modem£9.99	
DL-2 CPC6128 to FD-1£7.99	
DL-26128 CPC6128+ to FD-1£9.99	1
COMMECTODE & CADIE	

RS232 to NC100	£9 99
RS232 to PC Null Modem	
DL-2 CPC6128 to FD-1	
DL-26128 CPC6128+ to FD-1	
The state of the s	
CONNECTORS & CA	ABLE
6 Pin Din Plug	£1.49
6 Pin Din Socket	£1.49
8 Pin Din Plug	
8 Pin Din Socket	
8 Pin Din Plug - Megadrive	
Phono Plug x 2	£1.09
Phono Socket x 2	£1.09
50 Way Edge Board	£1.99
9 Pin Male inc Hood	£1.99
9 Pin Female inc Hood	£1.99
23 Pin Male inc Hood	
23 Pin Female inc Hood	
25 Pin Male inc Hood	
25 Pin Female inc Hood	£1.99

۲	dent	AL P	ne .	r TATI	cue	*****			 ****
	P	П	72 1		MI I	•	AE	31	
		ш		Ш	M	C			
		L	Uh			11	Uli		
		7 4			N. A.				
d	14 \	Va	V		Ella.	7			

JDC 34 Way	£
Edge Board 34 Way	
Ribbon Cable 34 Way 1ft	
50 Way Centronics Plug	.t

WAVE Electronics and Tasman software can now bring you a ultimate deal to turn your CPC into a

word-processing system.

TasWord 464D - The Ultimate Wor Processor for the CPC464 with dis drive TasWord 6128 - The Ultimate Word Processor for the CPC6128.

TasSpell - Spelling Checker for Tasprint - Printer Enhancement fonts for Tasword 464D and TasWord 6128

	Tasyvoru 6128,	たエソ・ソン
	TasWord 464D	£19.99
	TasSpell	£17.99
	TasPrint	£17.99
	TasWord 6128 with	
d k	TasSpell	£33.90
	Tasword 6128 with	

TasPrint£33.99 TasWord with 6128 **TasPrint & TasWord** Spell£42.99

CPC BUDGET WORD PROCESSING SOFT 999D PACK

INCLUDES 11 GAMES & A WORD PROCESSOR ON DISK FOR ONLY £6.99

> All Disk Games below £1.99 Cisco Heat Rock 'n' Roll

> > Sweevo's World

All Disk Games below £3.99

Paperboy 2 Bonanza Bros

All Below as Priced

Ten of the Best 1£6.99

Ten of the Best 2.....£6.99 Quartet - 4 Games....£5.99 Disk 50, 50 Games ...£7.99

Blue Ribbon Games .. £6.99

Furtles - Spanish£1.49

THIS MONTH'S SPEC	IALS
Mouse Mats	£1.75
Quickshot 2 Turbo Joysticks	£7.99
3.0"/3.5" 40 Capacity Disk Box	£5.99
3.0"/3.5" 100 Capacity Disk Box	£6.99
Soft 999D - 12 Games on Disk	£6.99
CPC464/6128 Scart Modulator inc PSU	£15.99
	#71847784878647844784467

EDUCATIONAL SOFTWARE

N SCHOOL 1 UNDER 5's CPC DISK £5.99 FUN SCHOOL 1 5-7's CPC DISK £5.99 UN SCHOOL 1 8-12's CPC DISK £5.99 FUN SCHOOL 3 UNDER 5's 5 TO 7's OVER 7's CASSETTE £8.99 EACH

DISK £12.99 EACH **FUN SCHOOL 4** UNDER 5's 5 TO 7's

CPC Cassette Games 7 TO 11's Turtles - Spanish£1.49 Turtles Coin Op.....£1.99 Back to the Future 2.£1.49 CASSETTE £9.99 EACH DISK £13.99 EACH

CERIOUS COETWARE

JULIIUUU JULI WA	
Touch 'n' Go Typing Tutor - 6128 & 6128 Plus Only	£6.99
Tasword 6128 - The Best CPC Word Processor	£19.99
Tasword 6128 & Tas Spell - Word Pro & Spell Check	£33.99
Tasword 6128, Tas Spell6128 & Tas Print 6128	£42.99
Tasspell 6128 - Tas Spell Spell Checker	£19.99
Tasprint - Printer Fonts For Tasword 6128	£19.99
Microfile/Word - Word Pro & Database	£5.99
Discology V3.3 - CPC Disk Utilities, Disk	
Copier/Backup Fast & Ultra + Disk Editor etc	£6.99
Electric Lantern Show - Printer Utilities	£4.99
Art Studio Colour Printer Driver	£6.99
Micro Design Desktop Publisher	£14.99
The second secon	

HARDWARE & PERIPHERALS

	A LITTY CI COLDOT SECOND DILVENNINN	
	FD-1DD1, CPC464/464+ Second Drive	£79.95
	MP-1, CPC464 to TV & PSU	£49,99
	MP-1F, CPC464 to SCART TV	£13.99
1	MP-2F, CPC664/6128 to SCART TV	£15.99
	RS232CPC, CPC RS232 Interface	£29.99
	RS232CPC+, CPC+ RS232 Interface	£34,99
	64K RAM Expansion CPC 464	£41.99
	AM40025, CPC464 Upgrade ROM	£24.99
	CPC SYSTEM DIS	SKS
	CPC6128, CP/M Plus	£14.99
	CPC6128, CP/M Plus CPC6128, DR Logo & Help	E14.99 E11.99
	CPC6128, CP/M Plus	£14.99 £11.99 .£8.99
Transmitted in the second	CPC6128, CP/M Plus CPC6128, DR Logo & Help	£14.99 £11.99 .£8.99 .£8.99
	CPC6128, CP/M Plus	£14.99 £11.99 £8.99 £8.99

Megadrive 1 plus Sonic the Hedgehog & Mega Games 3only £139,99 Megadrive Controllers£7,99 Megadrive/Game Gear PSU£14,99 Game Gear Car Adaptors Sega Hints & Tips Book.....

BLANK DISKS

CF2 3" Amsoft, Box of 10£	14.50
CF2 3" Ex- Software House. Pkt of 10	£8.99
CF2 3" Plastic Cases. Pkt of 10	£4.99
3.5" Double Sided	
Double Density Pkt 10	£4.99
3.5" Double Sided	
Link Danaite DL 10	CM DO

CUSTOMER NOTICE DMP2000 RIBBONS AND EX-SOFTWARE 3" DISKS BACK IN STOCKL

PRINTER RIBBO

ı	Star LC10 Pkt 2
ı	Star LC10, Pk 5
ı	Star LC2410/LC24200, Pkt 2
ı	Star LC2410/LC24200, Pkt 5
١	Amstrad DMP2000, Pkt 2
ı	Amstrad DMP2000, Pkt 5£
ı	Amstrad PCW8256/8812, Pkt 2£5.99
ı	Amstrad PCW8256/8512, Pkt 5£14.99
١	Amstrad PCW9512, Pkt 2£4.99
ı	Amstrad PCW9612, Pkt 5£10.99
ı	Citizen 1200, Pkt 2£6.99
ı	Citizen 1200, Pkt 5£11.99

PHONE OUR SALES LINE ON: 0229 870000

Storming into the second decade of the CPC

what else

The most challenging shoot-'em-up ever

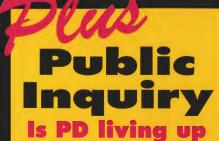
A specially-compiled collection of the very best serious PD

Amstrad CPC 464, CPC 6128, CPC 464 Plus





Relive the first decade of the world's greatest home computer... page 10.



to its promise?

The first



Serious stuff



Things go a bit loopy in the latest installment of AA's Basic programming series, as the commands FOR and NEXT make their first appearance.



Formatting discs, verifying discs and other things to do with disc operations and machine code form the underlying thematic metaphoric content this month.



Home Teacher is a new homebrew educational package aimed at 4-6 year olds, but how does it match up to the classic Fun School series?



"Backing up is hard to do, shooby doo, down down," as the Partridge Family



once almost said. But it can be a lot easier if you use a backing up device like Soft-lok.

decade of the CPC

Main feature

Yep, you'd better believe it - it's been 10 years since the CPC was launched and revolutionised home computing as we know it. Rod Lawton takes a very personal (ie, extremely biased) look back over the highs and lows of the CPC's career so far...

If you reckon you've got the hang of the basics of Basic but you want to start programming something a bit more complex then Campursoft's latest release should be right up your street.

Type-Ins

This month we've got a couple of great little games for you to type in -Helloween and Meteor Storm 3 - so give those fingers some exercise.

Adventures:

The Examiner

Techy Forum

Silencing a noisy tape deck, connecting up a CPC to a Psion, recommending cheap printers, giving machine code tips, scraping

sesame seeds out of Dave's keyboard it's all in a day's work for Richard Fairhusrt. Whatever the

this man has the answer.



not as we know it.

<eR-SpLaT</pre>

Bits'n'pieces



There's a lot of stuff on the covertage this month, so if you want to know how to get blasting or how to get those utilities to work, these are the pages you need to turn to.

Amscene

The latest in the continuing saga of Quantum Computing, news of a followup to last year's successful UAUG convention and loads more (as they say).

Amscene Directory

The most comprehensive list of CPC services anywhere. If they aren't mentioned here, they probably haven't written to us saying they'd like to be mentioned here (we're not omnipotent).

15 AA Special Investigation **Public Inquiry**

The philosophy behind public domain software sounds great – free programs that anyone can copy. But what is the reality? Can PD software fill the gap left by the major software companies pulling out of the market? Are the libraries doing all they can to support the scene? Simon Forrester investigates.

23 Back Issues

The more you buy the more you save that's the special offer we've got going in our Back Issues service at the moment, so take advantage of it while stocks last.

46 Reader Ads

Bargains, pen friends, services, user groups, fanzines, personal messages basically, if you can fit it on the form and it's legal we'll print it.

47 Leffers

That mad man with the breasts is back again, and this time he's topless. But don't panic, believe it or not there are some more sensible letters as well.

27 Next Month

There's a new look to the Next Month page as the strangely popular Trump Cards and Separated at Birth find a new home. But we'll still be doing all that usual predicting what'll be in next month's issue lark (using a Ouija© board, a piece of seaweed and couple of used matches no wonder it rarely works).

What

stuck

are vou waitina

for? Get

into the

covertape...



Uridium

Get ready for classic shoot-'em-up in the depths of space. It's just you against a fleet of enemy ships that never know when to give in. Can you destroy the enemy fleet, the alien defenses and, ultimately, the entire alien fleet? Only the best (and the cheats) can survive...

AA Toolbox

There are few machines that have a such a powerful version of BASIC built-in as the CPC. But with the amazing Amstrad Action Toolbox you can add enough extra commands to BASIC to make your own programs even more classy. Watch out, Type-Ins...

Turn the page for full details on the covertape.



Leisure zone



This issue has turned into an unofficial public domain special, what with loads of the stuff on

and a huge investigive feature into the scene, but you'll find Keith Woods' reviews of all the latest PD software in



the covertape

every issue.

all CPC text adventurers - game reviews, Lords and Ladies, Cluepot, that sort of stuff - there's a special bonus this month as we print the complete map to Bestiary.

As well as all the usual essential stuff for

e of the nes reviewed this month's ublic Image.

> Fluff finally gets a full review this issue - will it live up to the hype?



Review:

Hang on, I'm getting a sense of dela vu. Oh, yeah, this review was supposed to be in last month's issue. But author Rob Buckley decided that there

> was still room for Improvement se a finished version didn't arrive in time. This month we discover if the extra work has made Fluff the greatest CPC platformer of 'om all.



Round up: Sports sims

It's the Amstrad Olympics where Lee Rouane hands out the gold, silver and bronze medals (and a couple of wooden spoon) to outstanding (and outstandingly bad) sports sims.







More essential tips, cheats and pokes for the gameplayingly challenged. Chuckie Egg, Lords of Chaos and UN Savadron are among the games that get blown wide open.

elcome to AA's set of utilities for BASIC and machine code programmers. You've probably seen BASIC extensions like this a thousand times before; usually they add a few commands, most of which you can live perfectly well without, and disappear again. But we reckon you'll find the AA Toolkit genuinely useful. Most of them will work equally well no matter what CPC you have. A few are for disc owners only, and a couple are only to be used with cassettes. Similarly, a few commands are designed for systems with over 64k, and there are some commands especially suited for the 464. Something for everyone, basically.

How does it work?

The commands that Toolkits adds to BASIC are called RSXs, which is techie jargon for Resident System Extensions, which is techie jargon for something that begins with a "I" (bar) symbol. For example, one of the commands is called IMEMORY. You can use it like any normal command, as in:

10 IMEMORY

Or you can use it just on its own. Some commands, like BASIC ones, take arguments that is, you can't just put the command down and expect it to do something, but you have to supply a few numbers (or whatever) for it to work from. The thing to note here about RSXs is that they must have a comma directly after the command name (yes, it looks odd), for example:

IPUTKEY.65

464 owners ahoy!

As you'll know if you have a disc drive, the 464 is spectacularly inept at handling bar commands. For example, to erase a file from disc on the 464, you have to type

a = | filename| : | ERA, @a # instead of the simpler BASIC 1.1 equivalent: IERA, "filename"

Remember that this applies to the AA Toolkit commands too (however, one of the commands

Command line interpreter

a#="command": |CLI,@a# (BASIC 1.0) ICLI, "command" (BASIC 1.1)

CLI stands for Command Line Interpreter. This, basically, command and it will obey it.

"Big deal!" shout several thousand readers. "BASIC does that already!" Hang about. This has several advantages. For a start, if you just type ICLI, you'll be put in a mode where you can type RSX commands (ie. those

usually prefixed with 'l') to your heart's content. It's easier than from BASIC, because you can use spaces instead of commas to separate items. and you needn't bother with the speech marks (unless, of course, you have a space in the item). Let's say we want to rename the file OLDIE.BAS to NEWBIE.BAS. 464 owners would usually have to suffer this

a\$="OLDIE.BAS":b\$="NEWBIE.BAS":IREN, 0b\$,0a\$

However, owners of other CPCs and Pluses could get away with:

IREN, "NEWBIE.BAS", "OLDIE.BAS" REN NEWBIE.BAS OLDIE.BAS

To guit from command

ICLI has other advantages. If you supply it with an argument, it won't go mode, but will instead try to execute the string you supplied as a command. So, if a\$ contained "ERA

*.BAK", then typing ICLI,@a\$ would delete all the backup files on a disc.

Batch operations

a\$="filename":|EXEC.@a\$ IEXEC, "filename"

ICLI acts on what you type in at the keyboard. file (perhaps created with a word-processor or text editor) on your tape or disc. This means that

you can write a list of RSX commands to execute, save them (say) in the file "COMMANDS.BAT", and then execute them using

IEXEC. "COMMANDS.BAT"

For ultimate convenience, if you just type IEXEC on its own, it will try to load and execute a file called #EXEC.BAT.

Possible uses? Well, you could set up a file to set up your favourite colours and function key definitions, for example, erase all your backup files, and then leap into Protext.

Screen commands

|EDIT.character_value a\$="character": | EDIT, @a\$ (BASIC 1.0) (BASIC 1.1) |EDIT, "character"

Working out character designs manually for BASIC's SYMBOL command can be a chore at the best of times, downright annoying at the worst. But what is that in the distance? Could it be a heroic RSX decked in shades and riding a Harley-Davidson here to save the day? Yes, it is. But please don't laugh at the poor thing.

Select a character to edit using one of the above commands (the first takes an ASCII code -65 for capital A or 240 for an up arrow – as an argument, whereas the others take the actual character), and the character will appear. You can move your cursor using the cursor keys, invert pixels with COPY, and finish with ENTER or RETURN. When you've finished, the appropriate numbers will be displayed on-screen (in hex), ready to be copied into a SYMBOL statement.

Remember that, to define a character, you must have set SYMBOL AFTER appropriately beforehand (ie, if you want to define character 100, you'll need to have typed SYMBOL AFTER 100 or less). An error will appear if you haven't. The standard loader for the Toolkit sets SYMBOL AFTER 32, so you should be okay.

(BASIC 1.0) a\$="text": |DOUBLE.@a\$ (BASIC 1.1) IDOUBLE."text"

These print double-height text. You must have set SYMBOL AFTER 254 or less beforehand. The default is SYMBOL AFTER 240 when you turn on. and the AA Toolkit sets it to SYMBOL AFTER 32. so it shouldn't be a problem.

a\$="text": | WRITE, [style,]@a\$ (BASIC 1.0) |WRITE, Estyle, 10a#

Writes text to the screen in a specified style. The style is expressed by a number, which can be any of these: 1 - bold, 2 - thin, 4 - italics, 8 underlined, 16 - flippy (upside-down). Or you can add two (or more) together for a combination of styles. You can even change style half-way through some text. Use CTRL-B to toggle bold on or off, CTRL-T for thin, CTRL-I for italics, CTRL-U for underline, and CTRL-F for flippy. If you're going to do this later on in the text, you can leave out the number in the command if you want, so the text will start out plain (like writing 0).

This command relies on at least SYMBOL AFTER 255 being set (see above).

IMODE, mode number (all machines) IINK, ink, colour (all machines) IBORDER.colour (all machines)

Yes, these do work in the same way as the standard BASIC commands. We've just supplied you with them as RSXs so that you can use them from an IEXEC file.

464 commands

LERAME ICURSOR[.system switch].user switch ICLEAR. INPUT ICOPY.CHR,@variable% IGRAPHICS.PEN.ink IGRAPHICS.PAPER.ink

These pretty much emulate the commands to be found in BASIC 1.1, for the benefit of those struggling over Type-Ins that don't work on the 464. Simply replace CLEAR INPUT with ICLEAR.INPUT, for example, and hey presto.

ICOPY.CHR works in a slightly different way to the 6128's COPYCHR\$ function. Instead of a\$=COPYCHR\$(#0), you would write:

ax=0:1COPY.CHR,@ax: a\$=CHR\$(ax) ➤

Loading instructions

COVERTAPE

Getting started

To load up either side of the tape, simply rewind it, hold down CONTROL and press ENTER, Owners of 6128s or 664s will have to switch their machines to tape by typing | TAPE first.

Tape to disk offer

If you've got a disk drive and you want to get a disk version of this month's tape it's easy. Whip out your scissors and cut off that token at bottom of this page, chuck it in an envelope along with your name and address and a cheque or postal order for £2 made out to Ablex Audio Video, then send off the whole kit'n'kaboodle to:

AA104 Disk Offer, Ablex Audio Video, Harcourt, Halosfield 14, Telford, Shropshire TF7 4QD.

Loading troubles?

We make the greatest efforts to ensure our covertapes work properly, but if you've tried all that and your tape's still not loading then pop it in the post (with a note telling us your name, address, type of CPC you use and a brief description of the problem) to:

AA104 Covertape returns, Ablex Audio Video, Harcourt, Halesfield 14, Telford, Shropshire TF7 4QD T 0952 680131

NB When returning faulty tapes could vou please also include a stamped, self-addressed envelope. Thank you.

Please do not return faulty tapes to the AA office. There is no point. We cannot replace them here. Send them to Ablex, please.

Amstrad Action and Robot PD present:

The AA Toolkit

Code @1994 Richard Fairhurst

""If" you want instructions, press I.

To print out the instructions, type P

If you just want to use the Toolkit, then press SPACE to continue.

Press SPACE, I or P.

he Pope liked it. Okay, I've no idea whether he's even clapped eyes on a CPC, but it's new, isn't it? When was the last time you had the Pope's seal of approval on anything? Okay, okay, so he didn't use the words, "I like Uridium", but I bet he would have had he played it.

You see, Uridium is one of the all-time greats in 8-bit computing. Uridium is to the CPC

what Catholicism is to the Pope, which is why I'm sure he'd like it if he was a CPC fan. Okay, so

> the Pope never really likes anything when it

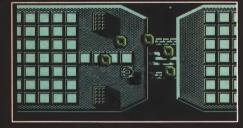
comes down to it, but he's the Pope. and it's part of the job. I can speak for the Pope

when I say that you have to attack the alien mothership, destroying every ship on its landing strips and,

in fact, everything else that can possibly be destroyed before screaming off to the next ship. There are various surprise elements in the alien defences, but if I told you, it'd ruin the fun, wouldn't it?

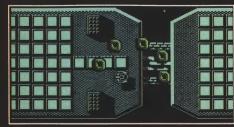
You can use either joystick or keys, using directional controls. To turn the ship around,

This is you, and you're about to die.



They've gone into ring doughnut formation.

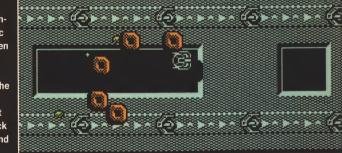
simply push your joystick in the opposite direction, and you'll turn around. As always with directions, there are four main ones, being up, down, left, and right. Would you like me to explain how to load it? Would you really like me to go that far?



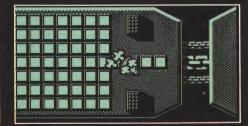
Derek panicked – the doughnuts attacked... Shortly afterwards the cornflakes laid siege. The X wing. Bad man.

Insert your tape on the side clearly marked Uridium, hold down CTRL and the small ENTER key, and follow the onscreen instructions. If you've got a disc drive attached to your machine (or even inside it), you'll need to type I (that's above the @ symbol) and TAPE, pressing RETURN afterwards, before the CTRL & Enter thing.

The joystick's that thing coming out of the side of your machine (or the back if you've got a 464), that's either tall and phallic, covered in lots of big red buttons, or a small beige rectangle with a wimpy-looking cross on it if you own a Plus. Happy now? I bet the Pope is.



These are the runways that you have to trash. So get trashing, man...





Note that the "a%=0" is important (although the variable can be called anything, of course).

Memory commands

IMEMORY (all machines)
This draws a graphical representation of

This draws a graphical representation of memory very, very quickly. Coloured bits indicate there's something in the memory at that point, whereas blank bits suggest that it's empty.

(all machines)

The on-tape help file, yay nonny.

[DUMP, start[,finish]

This displays a section of memory on the screen, from the start address to the finish address. If no finish address is specified, then a short display will be produced from the start address. When displaying long sections of memory, the computer pauses every

so often and waits for you to press a key.

IFIND, start, finish, byte (all machines)
Looks through memory for the occurrence of a particular byte, and prints up all the places at which it occurs.

IBANK, bank-switch (128k systems)
For use with the following commands, this

command selects which bank of extra RAM is to be used. The standard 6128 extra 64k can be selected with IBANK,&CO. If you have a 256k expansion, IBANK,&C8, IBANK,&D0, and IBANK,&D8 may prove useful.

IBANK.READ, from, to, length (128k systems)
This copies a section of memory from the

This copies a section of memory from the currently selected bank of extra memory to the specified address in the main 64k, where you can wreak your wicked ways on it.

IBANK.WRITE, from, to, length (128k systems)
Unsurprisingly, this is the opposite of the previous command, and copies memory from the main 64k to the extra memory.

ICOPY, from, to, length (all machines)

This copies the specified portion of memory (in the main 64k). For example, to copy the contents of screen memory (which starts at &C000, and is &4000 bytes long) to &2000, you could type:

ICOPY,&C000,&2000,&4000

IFILL, address, length, byte (all machines)
This fills a section of memory with the given byte, obliterating everything else underneath.

IFILL &C000,&4000,240, for example, will fill screen memory with ink 1.

ICALL,address (all machines)
IAF,value: IBC,value: IDE,value
IHL,value: IIX,value: IIY,value

Copyright

You are welcome to use the AA Toolkit (TOOLKIT.RSX) in your own programs – after all, that's what it's here for. An acknowledgement along the lines of, "Uses AA Toolkit from Amstrad Action and Robot PD" would be appreciated. The Toolkit may not be copied as a toolkit, rather than as part of a program, without the permission of the author.

The firmware has a lot of good routines in it, but many are not easily accessible from BASIC. These routines will help you to use them to the full. All you have to do is set up the required registers (so, to set HL to &4350, type IHL,&4350), and then CALL the routine using ICALL address.

To set the accumulator to 5, you would type IAF,&0500. This also sets the flags register to 0, but the flags are never significant on entering a

File commands

These are the commands that, as opposed to dealing with a block of memory, do various things with either cassette or disc files.

a\$="filename":ITYPE,@a\$ (BASIC 1.0)
a\$="filename":IPTYPE,@a\$ (BASIC 1.0)
ITYPE,"filename" (BASIC 1.1)
IPTYPE,"filename" (BASIC 1.1)

These two commands type a file from tape or disc to the screen. IPTYPE prints it on your printer, too. You can pause output at any time by pressing any key, with another key to resume (ESC to quit).

One useful feature of this is that it makes a half-decent job of *Protext* files, meaning that you no longer need to load the word-processor itself to read the files.

a\$="filename":|INFO,@a\$ (BASIC 1.0) |INFO,"filename" (BASIC 1.1)

This reads header information from the specified file and displays it in hex – filetype, start address and so on.

a\$="filename": ILOAD,@a\$,addr (BASIC 1.0)
ILOAD,"filename",addr (BASIC 1.1)

Loads a file into anywhere in (the main 64k of) memory. Unlike BASIC's normal LOAD command, this doesn't worry about HIMEM or other such nonsense.

IHL.WRITE,address,length,sync (cassette)
IHL.READ,address,length,sync (cassette)

Records an area of memory to tape as a headerless file, which is impossible to read if you don't know the sync byte (which should be a number between 0 and 255). Make sure you don't forget it.

Disc commands

ISECTOR.WRITE,address,drive,track,sector ISECTOR.READ,address,drive,track,sector

These record an area of memory (usually &200 bytes, half a kilobyte) directly to a sector on disc. Be very careful using ISECTOR.WRITE – if used indiscriminately on non-write-protected discs it could mess them up for good. Try experimenting on a disc of CP/M languages or something boring like that. The drive parameter should be 0 for drive A and 1 for drive B.

IUSER,user number

This is just like the usual command, except that the 0-15 limit has been removed and you can now select any user area from 0 to 255. 229 is where érased files go to rest before they die forever. Stunning stuff, eh?

Using the commands in your own programs

The file that does all the hard work is called TOOLKIT.RSX. To load it and set up the extra commands, you would need to use a few lines like this at the beginning of your program:

10 SYMBOL AFTER 32 20 MEMORY &7FFF

30 LOAD "TOOLKIT.RSX"

40 CALL & SOOR

Make sure that TOOLKIT.RSX is on the current disc or tape.

Error messages

There are a number of error messages that the AA Toolkit commands might generate. Here's what they mean:

CASSETTE OVERRUN – The headerless file was

not of the right length. CHARACTER NOT EDITABLE – The current

SYMBOL AFTER setting is inappropriate for the command you are trying to carry out.

COULD NOT SET KEY – You've tried to set too many function keys at once, and the computer has run out of memory for them.

DISC ERROR – Five hundred elephants came

charging through the undergrowth (well, really).

ESCAPE PRESSED – A tape operation was interrupted by you pressing ESC.

FILE ERROR – Some sort of error occurred while trying to access a file.

ILLEGAL PARAMETER COUNT – You haven't supplied the right number of parameters (or arguments) for a command.

READ ERROR B (CRC ERROR) – Bad news. Bad, bad news. Bad, bad, bad news (get the idea?) This means that your headerless file has probably been messed up.

UNKNOWN COMMAND – ICLI or IEXEC is trying to find a command you have given it and failing miserably, poor thing.

ICAT, drive

Catalogues the disc in the specified drive: 0 for drive A and 1 for drive B. This enables you to quickly catalogue a drive which you're not using at the moment, without having to go through the rigmarole of IB:CAT:IA.

Miscellaneous commands a*="string": IKEY, exp. token, @a* (BASIC 1.0) IKEY, expansion token, "string" (BASIC 1.1)

This sets up a function key (usually) to generate a string of characters: IKEY,0, "ICLI"+CHR\$(13), for example, will set f0 to enter CLI mode. This is no different from the standard Amstrad KEY command, but, again, is provided for use in IEXEC files. In an IEXEC file, you would write the above as:

KEY Ø ICLITM

| IPUTKEY, character value (all machines)
a\$="character": | IPUTKEY, @a\$ (BASIC 1.0)
| IPUTKEY, "character" (BASIC 1.1)

Pretends that a key has been pressed, so that next time you come to read the keyboard (using INKEY\$, INPUT or similar), that key will appear. You can only "put back" one key at a time before reading a key. Useful for when certain keys (detected with INKEY\$) trigger off a line of INPUT beginning with that letter.

WAREHOUSE CLEARANCE!

AMSTRAD GAMES CARTRIDGES
FOR THE 6128+/464+/GX4000

WE ARE ABLE TO OFFER THE FOLLOWING GAMES

CARTRIDGES AT

A SPECIAL OFFER PRICE OF £9.99

(WHILE STOCKS LAST):-

*NO EXIT
*NAVY SEALS
*PRO TENNIS TOUR
*BARBARIAN II

*OPERATION THUNDERBOLT

*SWITCH BLADE

ALL GAMES ARE UNBOXED AND WITHOUT INSTRUCTIONS
DON'T DELAY ORDER TODAY!

AMSTRAD 6128+/464+/GX4000

TROJAN PHAZER GUN WITH SKEET SHOOT CARTRIDGE	£29.99
ENFORCER CARTRIDGE FOR ABOVE.	£14.99
AMSTRAD BURNIN RUBBER / LOCO BASIC CARTRIDGE	£19.99
AMSTRAD 6128+/464+ INSTRUCTION MANUALS	£14.99
AMSTRAD 464+ COMPUTER WITH MONO STEREO MONITOR	£125.00
AMSTRAD 6128+/464+ KEYBOARD MEMBRANES	£12.99
AMSTRAD PADDLE CONTROLLERS(6128+/464+/GX4000)	£2.50
AMSTRAD 6128+ COMPUTER WITH MONO STEREO MONITOR	£160.00
AMSTRAD GX4000 POWER SUPPLY UNIT	£15.99
AMSTRAD 6128+/464+ PRINTER LEADS	£9.99
AMSTRAD CM14 COLOUR STEREO MONITORS	£125.00
AMSTRAD MM12 MONO STEREO MONITORS	£65.00
AMSTRAD 464+ COMPUTER CONSOLES	£65.00
AMSTRAD 6128+ COMPUTER CONSOLES	£85.00
AMSTRAD 464 LIGHT PEN & SOFTWARE	£19.99

AMSTRAD 464 AND 6128 - GENERAL

AMSTRAD 6128 LIGHT PEN & SOFTWARE	3229.99
AMSTRAD 464 LIGHT GUN & GAMES CASSETTE	£19.99
AMSTRAD 6128 LIGHT GUN & GAMES DISC	£19.99
AMSTRAD GREEN SCREEN MONITOR GT65	£65.00
AMSTRAD CPC CASSETTE MECHANISM WITH TAPE HEAD & MOTOR	£29.99
AMSTRAD 464 CASSETTE HEAD ALIGNMENT KIT	£9.99
AMSTRAD CASSETTE TAPE HEAD DEMAGNETIZER	£9.99
AMSTRAD PRINTER LEAD (34 EDGE CONNECTOR TO CENTRONICS PLUG)	£9.99
AMSTRAD JY2 JOYSTICK	£9.99
AMSTRAD 464 TEACH YOURSELF BASIC TUTORIAL GUIDE WITH	
TWO CASSETTES P	ART 1 £9.99
P	ART 2 £9.99
AMSTRAD 464 NEW CIRCUIT BOARDS WITH CHIPS/PLUGS	
ETC (PART No. 270375)	£34.99
AMSTRAD 6128 CASSETTE LEADS	£5.99
AMSTRAD 464/6128 SPEECH SYNTHESISER WITH STEREO	
AMPLIFIER & TWO SPEAKERS	£19.99
AMSTRAD MP1 MODULATORS (RECONDITIONED)	£30.00
CPC 6128 MON/KEYBOARD DUSTCOVERS	£6.99
CPC 464 MON/KEYBOARD DUSTCOVERS	£6.99

IF YOU WOULD LIKE TO BE PUT ON OUR REGULAR MAILING LIST FOR SPECIAL OFFERS ETC. PLEASE WRITE AND ADVISE US STATING WHICH COMPUTER MODEL YOU HAVE.

We also stock spare parts, software etc, for Commodore 64 and Spectrum computers.

ALL ORDERS SENT BY RETURN: CHEQUES/VISA/ACCESS/POs

TRADING POST,
VICTORIA ROAD, SHIFNAL,
SHROPSHIRE TF11 8AF
TEL/FAX (0952) 462135



VISA

THE AWARD WINNERS...

First disk drives for the CPC464/464+. Includes 3.5" disk drive, DDI-1 interface, connecting cables, power supply and utility software. The complete PLUG IN & GO solution. Full instructions and 12 months guarantee. Only £159.99. Please state 464 or 464+ when ordering.

Cherry Paint drawing program RRP £14.99
FREE with every first disk drive

Winner of the Best Disk Drive award, Amstrad Action July '93

3.5" Second disk drives for the CPC464/664/6128. Top quality 'Panasonic' 3.5" drive mechanism, includes power supply, connecting cable, full 16 page manual, RAMDOS, RAMdisk & many more utilities. Format 800K per disk just like a PC, Amiga, Atari ST etc. The complete PLUG & GO solution.

SUPERB LOW PRICE, ONLY £64.99!!

ROMDOS XL

Superb high capacity disk operating system available on ROM or complete in its own ROMBOX! Nothing else compares with these features:-

• Built in disk formatter

Very simple to use

• Built in file copying/erasing

• Uses no user memory

• Full 19 page printed manual • Auto detects format

• Built in Sector/Directory Editor • 464/664/6128 compatible

ROM version only £24.99
Complete in ROMBOX only £39.99

Winner of the Best Disk Operating System award, *Amstrad Action July '93*

ALSO AVAILABLE...

3.5" Blank Disks

Only £7.50 for 10

HACKIT - excellent Award Winning hacker/machine code programming cartridge.

Only £24.99

PC-TRANS - transfer files from a CPC to a PC and vice versa.

Only £24.99

RS232 Serial Interface - can be used to connect the CPC to another computer, modem, serial printer etc. Ideal for use with Amstrad NC100/200 (connecting cable available priced £9.99). Includes built in ROM software. NEW LOW PRICE £29.99

Please add £5.00 postage and packing to all disk drive orders. Other orders please add £1.00. All major credit cards accepted. Immediate despatch for credit card orders.

Siren Software, Wilton House, Bury Road, Radcliffe, Manchester M26 9UR Tel: 061 724 7572

Virgin # 081 960 2255

Zeppelin Software

Hardware

The place to go for mice, printers.

Microform Fax: 0772 703131

Drives, upgrades, disks, all sorts of

memory expansions, all that sort of stuff.

Suppliers of loadsa good stuff - their ad

Date = 0782 744707

T 001 385 7755

techy stuff like that

₩ 081 200 8870

is on the back cover.

Romantic Robot

Creators of the Multiface.

WAVE # 0229 829109

Software

suppliers

Software Express

T 010 6177 253 766

A new company in Inverness.

T 0463 240168

Tronics North

Australia, 4814.

OJ Software & 0257 421915

Fast friendly service, the ad says. And

wide variety of software on offer as well.

Software Cavern & 0628 891101

Probably the largest selection of CPC

software for sale in the known universe

PO Box 7419, Garbutt, Queensland

The largest supplier of software and CPC

bits'n'pieces in the southern hemisphere.

Mail Order

They're offering loads of cut-price

cartridges at the moment.

lightgun stuff.

Avatar

₩ 0274 602180

Troign # 0554 777993

Trading Post 2 0952 462135

The people to speak to for cartridge and

Wizard Games # 0723 376586

Games, games and yet more games,

basically on every imaginable format.

and repairs

Amstrad-authorised repairs specialists.

Upgrades

it's right. They've got an impressively

US Gold/Kixx 7 021 356 3388

Amscene

What's hot and not what's not on the CPC news front.

Strange domain



Dave Golder, editor (though

ublic domain software has always been the cause of much confusion. In theory it's free because you can copy it legally; but the way most peop buy it, through the post, usually entails some exchange of money. This is normally explained as costs top cover postage, packaging and copying expenses. But sometimes you do wonder whether someone is on the make and there is a lot of

Which is a shame because there is an awful lot of potential in the concept of public domain. Now that the major software companies have pulled out of the market, most of the new software being written for the CPC ends up in the public domain, which means that now, more than ever, there is some really good stuff to be found. The public domain also serves as a good training ground for new software writers who, might, if they get enough feedback, move onto producing homebrew software. This would be good for them - they'd be earning money - and good for the CPC scene in general, because we'd be getting good quality software. So the Public Domain could be seen as the one area of the CPC scene that could grow and prosper.

So, what should be done about PD? That's what we asked leading figures on the CPC scene in our feature (page 16), but let us know what you think. Dave

PC CPC, see?

the CPC a while back, but now there's a CPC emulator for the PC. Does this ever stop? If you loaded your CPC emulator into your PC, and loaded your Speccy emulator into that, you could have all sorts of problems. Go out and buy a Speccy instead.

Seriously, though, this is rather wonderful, CPC EMM, the CPC emulator for the PC, has the facilities for ROMs, some CRTC registers, as well as some extra features to make CPCing a bit easier. We'll be reviewing it next issue, but if you're that impatient you can contact Marco Vieth, Auf dem Uekern 4. 33165 Lichtenau, Germany,



Will you be able to play our covertapes on a PC? Thanks to Gavin Pugh for the information

Another show...

Hot damn, etc. it's the Future Computing '94 show, If you enjoyed the FES2 last year, this new improved Future Show, with more workshops, more stuff to take part in and less of an emphasis on console games, should be even more up your street.

If you manage to come along to Earl's Court 2 on the 26th to the 30th of October you'll get a chance to see some of the very latest technological developments, experience the forefront of computing technology, attend the workshops, presentations. demonstrations, and plant your feet firmly in the next century. There'll be

more details on prices and stuff when they've been worked out.

...And another fanzine

That's right – we've had another one writing in, CPC Mania, produced by Derek Payne. The issues cost £1 50 each from 89 Wolverhampton Road, Codsall, Wolverhampton, WV8 1PL.

In the back-up feature last month we printed a quotation credited to Rob Scott of Avatar. It should have read Phil Craven of Avatar. Rob has nothing to do with Avatar. Got that?

Adventuring on...

For anyone now wanting to get their hands on software from Adventure PD, you're looking in the wrong place. The entire Adventure PD software range is now available from Adam Shade's Dartsma PD instead, in exactly the same form as they were in from Adventure PD. For anyone who doesn't have the motor neurone skills to look across the spread at the Amscene Directory, the address for Dartsma is 49 Heavitree Road, Plumstead. London, SE18 7QX.

Quantum mechanics

Not exactly a news story, more of an announcement, really. A lot of people have been having incredible hassles with Quantum to do with deliveries, reliability and replacements.

Those who're getting annoved with the situation are perfectly ustified in their actions, but a few are taking it out on the wrong person - Rob Scott and STS would like to make it clear to everyone that they left the echnical repairs and hardware side of Quantum a while back. and have nothing to do with the problems people are having with their orders. STS will continue their sales of Quantum software, but that's about as far as it goes.

Another matter of convention

Word has reached the AA news deŝk (as if we have a separate desk - I ask you) of a third UAUG convention, "What happened to the second one?" That was the one I covered last year - we missed the first.

Anyway, the UAUG 3 will be held on June 19th at the 'Hamilton Room', Church Road, Betchworth, Surrey. When I get more information I'll let you know, but this looks like it could be easily as good as last year - a load of CPC

fanatics swapping hints, tips, and lots of other interesting things. It'll also be a good opportunity to ioin up for all of the benefits of the UAUG.

So the top people in the UAUG (right), as well as some of the really big names in CPC land will be there, so why not have a think about it...



Nip along to the third UAUG convention later this year and meet these blokes. And loads of other people.

If you want to be included in the Directory, or you know of any information that needs to be updated, write to: Amscene **Directory, Amstrad Action, Future** Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW.

PD Libraries

Amsof

Lissanly, Cloyne Middleton, Ireland

Large range of European stuff.

Braysoft

🗷 2 St Margaret's Road, Hayling Island, Hants, PO11 9BP.

3-inch disks only.

Colrob PD 9 Aviemore Road, Hemlington Alddlesborough

New tape-only PD library

Dartsma ☎ 081 855 7790

▲ 49 Heavitree Road, Plu London SE18 7QX.

They have also taken over Debbie Howard's Adventure PD collection.

47 Hilton Avenue, Hall Green Birmingham B28 OPE

3 5-inch discs available. Disk PD

Lower Dexbeer, Dexbeer, Holsworthy evon EX22 7LA. T 0288 82348

GD PD

49 Woodville, Barnstaple Devon EX31 2HL

Image PD

Darren Dodds, 15 Elmwood Drive,
Ponteland, Newcastle-Upon-Tyne NE20 9QQ Also provides a digitising service.

PD Fun

💌 41 Michaelgate, Kirkby Lonsdale, Vla arnforth, Lancs LA6 2BE A policy of 'no serious software'.

Power PD

83 Longleat, Great Barr, Birmingham, West Midlands B43. Presto PD

33 East Lane, Sandiway, Northwich, heshire CW8 200

Signal Software

≥ 83 Longleat, Great Barr, Birmingham, West Midlands B43.

Sheepsoft # 0446 736529

Based in Wales, of course. Baaaaa

Sleepwalker PD ☑ Disk software: Joe Moulding, 9 Meeting House Lane, Balsall Common, Nr Coventry CV7 7FX

Special offer to AA readers – if you send loe a disk he'll send you a free selection of PD. Only one selection per person, please.

The Vault ≥ 43 Windfield Gardens, Clybaun Road, Galway, Ireland.

T 010 353 91 28204 A new but rapidly expanding library with lots of European software.

Ultimate PD 26 Woodside Road, Irby, Wirral, erseyside L61 4UL

New PD library that specialises in 3-inch disk and tapes and has a wide selection of 'mathematics' programs available (whatever that means).

Fanzines

The UAUG's fanzine.

Amstrad Contact 0403 753348

Amstrad User Group)
© 0329 234291

An AA-recommended user group.

the CPC then you really shouldn't be missing out on WACCI. They're fab.

14 Station Road, Riccall, York, North Yorkshire YO4 6QJ

37 Trimingham Drive, Brandlesholme, Bury, Lancashire

the look out for writers

20 Lancaster Terrace, Chester-Le Street, Co Durham, DH3 3NW

the man who used to produce Am-Com.

User Groups

technical helpline for CPC users. **UAUG** (United

If you're seriously into the techy side of

Companies

Avatar

Suppliers of Phil Craven products, and a few of the Bonzo titles.

Ultra Games

Cassette-based multi-format fanzine from

Sussex-based group that also runs a

WACCI

₩ 0602 725108

Independent Software

Amszine

The Eliminator

CPC User T 0329 234291

CPC Undercover

A technically-minded fanzine that's also on

Estate, Rotherham, South Yorkshire. The people who brought you The Gripper and Comparitor. They're also on the look

out for new programmers.

Campursoft

T 041 554 4735

DMP Software

T 061 736 1204

game (don't argue).

New Age Software

T 01049-711-4201920

more titles pretty soon.

Radical Software

love to hear from you.

SD Microsystems

look at the feature in AA93.

Sentinel Software

T 0760 720381

churn 'em out.

Siren Software

vellow half-page one).

T 061 724 7572

T 081 856 8402

Wolverhapton WV8 1PL

You name it, they do it, really - take a

89 Wolverhampton Road, Codsall.

Over 30 home-programmed games and

serious programs on both tape and disk.

Authors of Trakers, a truly great CPC

Responsible for Zan'T'Balls, the excellent

Still releasing top-quality, new software

for the CPC. If you've written a program

you think is worth releasing this lot would

Specialists in husiness software - take a

Suppliers of selected STS titles and a

It'd take a hell of a time to list everything

they do - check out their ad (it's the

few original products. They don't arf

Soundtrakker, and, hopefully, a few

look at the interview in ish 96

Gary & Scott Kennedy

Bia Softies So you can ring them up and hassle 'em

about releasing some new stuff. **Alternative Software**

T 0977 797777 CodeMasters 2 0926 814132 Gremlin/GBH # 0742 753423

Touchdown @ 0268 541126

Ocean/Hit Squad T 061 832 6633

WTS Electronics Titus/Fox Hits 2 071 700 2119 T 0582 491949

Don't gamble with your AA105

There are some things you just do not joke about. Missing out on a copy of Amstrad Action is one of them. Think about it - you go down to your local newsagent and there are no copies left. No don't think about it. It's too hideous to contemplate.

So make sure this situation never occurs. It's imple. All you have to do is fill in this form over here to the right a bit and hand it to your local newsagent and then he'll order and save you a copy of Amstrad Action every month (there's nothing these newsagents like better than a guaranteed sale).

Dear Newsagent, Please save me a copy of...



..every month. It comes out every third Thursday of the month and is produced by those wonderful people at Future Publishing.

1984 - the year Frankie

Goes to Hollywood spent three months at number one, George Orwell's prophecy didn't come true and Amstrad launched a very long computer. AA longest-running editor, Rod Lawton, takes a personal look back at 10 years of the CPC.

pril 11th **1984** – something happened that was to change the world forever. Allegedly. Alan Sugar launched the CPC464. It was a vision of the future. The world had never seen anything like it before (or Alan Sugar's barnet, either). It was a computer that came complete with – gasp – a proper monitor. And it had a built-in tape drive. And it was colour. And it had a huge 64K of memory. And it had holes for printers and joysticks and all sorts of other, as yet unimagined, goodies.

Okay, it was built like a plastic outhouse and had a keyboard from hell, but there was no doubting its technical ability and its wonderful allin-oneness. It wasn't up against much, of course. The Commodore 64 looked like a keyboard pumped up to the wrong pressure, and the Spectrum had the ergonomics of a pre-war Skoda. By contrast, the 464 was a miracle of

engineering, the pinnacle of technology and the one machine you could buy with a

keyboard that was wider than your house. The thing about the

CPC, though was that it was a serious tool, as well as a

Nowadays, you can

pick up a PC for the price of a case of Rod Lawton - he's seen some changes in his time. "It were all fields round brown ale and a Chinese takeaway. ere..." Thank you Rod. but back then PCs were for corporate

men in suits, whose departmental budgets were the size of the average person's mortgage. The ordinary punter couldn't afford both a house and a PC, so the arrival of the CPC was a breakthrough in home computing. It wasn't just a games machine. You could also program it using the

built-in BASIC. And publishers started producing some guite good, serious software for the machine. You really could set up and run your own business using a CPC (you'd probably go broke, of course, but you could do it).

The next big thing

But the 464 wasn't perfect. Tape-based software might be cheap to manufacture, but it's not hugely reliable, and it's slower than a sedated stegosaurus to load. Amstrad responded in May 1995 with the CPC664 – a 464 with a disk drive and a keyboard that didn't look like it was made of Lego™. Still, only 64K of memory, though...

That memory limitation spelt the end of the 664 just six months later. In August 1985, Amstrad confirmed that it was deader than the dodo, and was to be replaced by a new machine – the 6128. This had – gasp – a disk drive and 128K of memory.

Autumn 1985 was an exciting time. You could buy Protext on tape, disk or ROM and Technician Ted scored 82 per cent in Amstrad Action (that was at a time when getting two pixels to move simultaneously in the same direction was considered an achievement).

Showbusiness

By 1985 you actually had whole shows devoted to Amstrads! The autumn 85 event took place at London's Novotel. Sadly, though, there weren't too many games softies there. And, er, Amstrad didn't have a stand there either. Guess they were showing their level of support for the machine right from the start, then?

Never mind – the CPC was getting loads of support from the games industry. In particular, one David Braben, author of the formidable Elite. Yes, the blockbusting Elite appeared that winter the game many reckon to be the finest ever

through a

populated by hostile wire-frame polygons and differently-coloured discs. Elite fans tell me it's a great game once you get into it. I tell them I'd have more luck getting into a phone box with Cyril Smith.

Antiques Roadshow

Tell you what, though. Why don't they write games like Spindizzy any more? More rooms than Buckingham Palace and harder than eating fried rice with chopsticks. Most people wouldn't live long enough to finish this game. If you bought this one in the spring of **1986** you're probably still playing it now.

Tell you something else that came out at the same time – Mini Office 2. This formidable suite of programs cost only £20, and included a word processor, a database, a spreadsheet, graphics capabilities, comms stuff, label printing facilities... and bugs. At least, the pre-pro version reviewed by AA did. But what a classic program. Look at how many CPC owners still use it. Quite.

In fact lots of things have gone the same way as Mini Office 2, haven't they? How many of you remember the Grafsales Grafpad II graphics tablet? Or what about the Volex JTX2000A teletext adaptor? And how about the old Protek 1200 'acoustic coupler'? These were the days when home computers were 'the future', when your micro could act as the nerve centre of your entire life. When you could turn your CPC into a teetering edifice, consisting entirely of loose cables, wobbly connectors and little black boxes that creaked if you squeezed them too hard.

Talking of creaky little black boxes, it was about this time (mid-1986) that Alan Sugar bought the littlest and creakiest of them all – the Spectrum. In fact, he bought out Sinclair. What an inspired move. Invent a computer better than your written. A game where you can spend months and competitor's, then buy your competitor's. I never

quite understood that one. This prompted lots of speculation that the CPC464 was for the chop. Yes, even back then, people were wondering how long the CPC had left to go. Happily, the machine lived on, and the rest is (pre)history.

The golden years

The mid-to-late 80s were the CPC's golden era. The software houses were falling over themselves to produce ever more innovative, challenging and daft software, while the peripherals manufacturers turned out RAM packs, speech synthesisers, graphics tablets, automatic platewarmers and anorak interfaces by the billion. Users need never leave their bedrooms again. and many of them didn't.

Some of these plug-ins were a bit ambitious. Like the Vidi video digitiser, a device capable of taking a real-life image and turning it into 11 different-coloured pixels. Great for multimedia. Or do I mean migraine? And what about the (in)famous Red Box? For the uninitiated, this was a control system that plugged into your interface and could control, via other boxes, a host of mains-operated household items. What a load of old twaddle. No, really. For heaven's sake.

There were a lot of dodgy back-up devices, too. Things that could copy software from tape to disk Things that could produce identical copies of disks. Things that let you fiddle with disk data on a sector-bysector level. What did people want this stuff for? To blag games, of course, and other

Now there're going to be howls of Carts weren't quite the protest about this. We're going to get were hoping for. loads of letters from people who found legitimate uses for these copiers. I don't believe a word of it. You were all a bad luck in the clock radio market... lot of scheming skinflints, out to squeeze as much of your mate's tape-based games onto one of your disks as possible. We know.

There were good games around, too. Like Academy, for example (a bit like a planet-bound Elite, but without the objects made out of coathangers), and the stupidly good Sentinel. And, of course, there was Freescape.

Now call me a stick-in-the-mud. Call me a moaning minnie. Call me a raving pilchard... (oi. steady on - Dave). But Freescape, to me, speaking personally, is, well, a bit dull. Well. flipping dull, actually. Duller than getting lost in a giant warehouse full of different-coloured boxes. And having to wear lead wellies at the same time. I'm sure many people got lots of pleasure from jerking slowly around a world full of polygons and dying suddenly after six hours. Not me.

The next big thing

Never mind, there were lots of other exciting things happening at the time. Rumours

abounded about an imminent 16-bit Amstrad. Maybe an Amiga-compatible format altogether? Maybe indeed. And maybe pigs might fly. It turned out, of

course, to be the doomed Sinclair PC200, a games orientated PC with no more colours than a CPC in Mode 2. Pitiful. Needless to say it went down like a lead balloon. One that hadn't been blown up properly in the first place.

Doesn't it all seem a long time ago? There's something else that seems so long ago you're not sure it ever actually happened. And that's Amstrad supporting the CPC. Good grief, back in 1988 they still ran a CPC owners' club. It had an official magazine, a free technical support service, discounted software and a 24-hour ordering service. Or so it seemed. Amstrad were in fact, in the process of hiving off their CPC club to outsiders, and this was just the start of a slippery slope into oblivion, ending with the final demise of Amstrad Computer User magazine in 1991. What a blow. 11 people returned disappointed from their newsagents that month (six of those because it was shut).

Never mind. If Amstrad were keen to unload the User Club, it didn't mean they

were about to pack in the CPC. Indeed, at the same time as launching the ill-fated PC200 in 1989, they bundles. As well as your basic keyboard plus monitor set-up, you also got a TV tuner, 17 games of

varying quality, a joystick, a 'workstation' (desk) and - rather bizarrely – a clock radio. Maybe Amstrad had experienced some

They must have been doing okay elsewhere. though, because the company posted profits of over £90 million. But Alan Sugar was cautious about the future, given the (then) rise in DRAM prices. He should have been more worried about the (now) decrease in punters.

That was also clearly a problem for

Database's CPC Computing, formerly called Computing with the Amstrad. Database gave it up as a bad job in the winter of 88. Most of its readers had given it up as a bad job long before then.

But big news was in the pipeline. No, not the CodeMasters CD games pack that we visited them to see and wrote a long article about, and which they never blooming-well made – the gits (some things never change – Dave). No, it was the launch of the fabulous new GX4000 console

The 8-bit for the 90s

Amstrad were clearly very serious. They hired designers who made the new machines look as if they really did belong in the latter half of the 20th century, and they invited me and a posse of other, lesser, journalists over to a press launch in Paris.

No expense was spared. We stayed in a topclass hotel... we had dinner in the restaurant half-way up the Eiffel Tower... and two dozen brand new machines were set up and ready to run in the room next to the briefing ceremony.

It's a pity there weren't more games running on them, that's all. You could count the console releases on the fingers of one hand. If you only had one finger, that is. Amstrad's new machines would have stood a good chance if the software and marketing support had been there.

It didn't help that 1990 – the year the new machines were released – saw some fabulous CPC games released. Games which didn't need the console hardware, and cost half as much as console games. Remember these? – Operation Thunderbolt, Ghostbusters 2, Hard Drivin', The Untouchables, Jack Nicklaus Golf, Chase HO, Myth. Rainbow Islands, Castle Master, X-Out, E-Motion, Pipe Mania, Turrican, Italia '90, Bloodwych, Klax, Stunt Car Racer, Lords of Chaos, Rick Dangerous 2, Shadow of the Beast, Kick Off 2. Sim City. All released in a single year, and all utterly excellent.

10 computers the CPC is better than (in some way)

- 1 The Spectrum Because it lasted longer.
- **2** The ST Because it hasn't got joystick ports so hidden in its bowels you can't plug them in.
- 3 The PC Because you don't need a degree in quantum physics just to switch it on.
- 4 The Amiga Because it's longer.
- 5 The Apple Macintosh Because you don't need 20 grand for the starter kit, and a qualified Apple consultant present every time you want to put a disc in the drive.
- **6** The Archimedes Because it's had more than five games written for it in the last 20 years.
- **7** The C64 Because a disc game on a CPC loads in under 15 minutes.
- 8 The MSX What does MSX stand for, anyhow?
- The Electron 'Cos games load occasionally.
- 10 Jupiter Ace Because the CPC isn't a crap ZX81 clone that got legally blown out of the market for copyright reasons. What kind of nonce builds a machine that runs FORTH, anyway?

CPC owners had never had it so good. The people who played games, anyway. The serious types weren't quite so thrilled. All the wonderful black boxes and fabulous widgets of the mid-80s were disappearing, and precious few manufacturers were coming up with anything new. The era of the CPC as a technological nervecentre was at an end.

The beginning of the end? been laughing.

The trouble was, it was beginning to look as if the CPC's era as the centre of anything was all but over. The serious wirehead techie types had pulled out of the market a while back, and now the major games publishers were doing the same. The CPC's relaunch had had almost no effect on the market whatsoever, and the GX4000 was shifting so badly there was talk of suppliers melting them down for the plastic.

What was going wrong? With the CPC, nothing really. It's just that by 1992 people had figured out that a £399 Amiga really was quite good value compared to a 6128 at £399. And the Amstrad's processing power and graphics abilities, while ahead of the field in 1985, were now starting to look a bit prehistoric.

And in May 1992, the biggest dinosaur of all, Amstrad Computer User, finally bit the dust. Amstrad Action's oldest competitor was also its last... or was it? Born out of the ashes of ACU was CPC Attack!, hosted by Tank Girl-lookalike Amy and boasting a bright, new look. Alas it was a star quickly extinguished by the bucket of water

Rod's top 10

1 3.5 inch disk drives

If I hear one more supplier droning on about the superiority of their drive I'll scream.

For some reason, every other reader call we got here at AA was about an item in issue 17 that I knew nothing about.

3 The Red Box

People used to ask me where to get it and I didn't even know what it was.

4 Mode O graphics

Not so much graphics as a selection of different-coloured paving slabs.

5 Tape software

The sort that gets 99 per cent of the way through loading and then crashes.

6 ROM boxes

They either didn't work or had to be held together with Sellotape™

7 Adam Peters' alarm clock He didn't have one. Or if he did it went off at

lunchtime. And then he ignored it. 8 Adventures

All of them. Without exception.

The 464 keyboard Someone deliberately built it that way. I'd like to meet that man and shake him by the neck.

If I listed all my mates at the end of this feature in red and yellow text on a pink background would you be impressed?

Lost Caves is a truly great game, and we're not just saying that because one of AA's ex-writer's

called reality. It would have helped if a few more people had bought it. A couple of hundred. and they would have

We were now entering a completely new era of CPC birth of the box-shifters All those CPC peripherals made in

ago were being dredged up from dusty warehouse corners and flogged off at bargain prices. Meanwhile, in the games world, publishers were knocking out last year's full-price games as budget releases! It was the CPC's Indian summer. You know autumn and winter are on their way, but for now you're just enjoying the late summer sun.

The middle of the end

1993 was a bad year for the CPC. The market had been tottering all through 1992 and now it collapsed around a die-hard core of CPC owners. All the game freaks who had kept the machine going into the 90s suddenly went off and those that were left were only left because they didn't have two edge connectors to rub together – so you can imagine they weren't terribly active games buyers.

The software industry deserted the CPC. All except US Gold, who kept promising to release Street Fighter 2 on the CPC. We all hoped they would, because the CPC needed a big new game. But then again, maybe we all hoped they wouldn't, because if it took all of the SNES's speed and the night in a cold sweat about

But apart from the games fans, there were the serious users. They had stuck around since the beginning, convinced that the CPC was the only decent home computer ever made. Well, for its time it was. When the CPC was launched, people believed the key to the future was knowing how computers worked. 10 years on, that's proved not to be true. The machines have ever friendlier software - which means that you now need to know far less about computers to use them than you did in 1984.

was a computer-literate generation which went on to program the software of the 90s. That's a legacy of which to be proud.

Rod's top 10 **CPC** games

Laser Squad

The best game that's ever been, or ever will e, written for any machine.

Sentinel

Eerie, terrifying, absorbing (bit of a gag there for Sentinel fans), and colossal. 3 Klax

Simple, yet brilliant. I still reckon I can beat anyone in the company.

Lost Caves

Ex-AA writer Adam Waring's forgotten classic, Made Boulderdash look pitiful 🗲 Lotus Esprit Turbo Challenge

Great racing game. Everyone else thought it was too easy. Show-offs.

6 Loopz could have played this till the cows came home If they could have got up the stairs to the office.

7 Academy

Chilling, tactical, testing and varied. Don't mock it until you've played it.

Supercars

Like Super Sprint with power-ups. Terrific.

Power Tetris

PD equivalent of the Game Boy two-player game. Stupidly addictive and good.

1 Switchblade

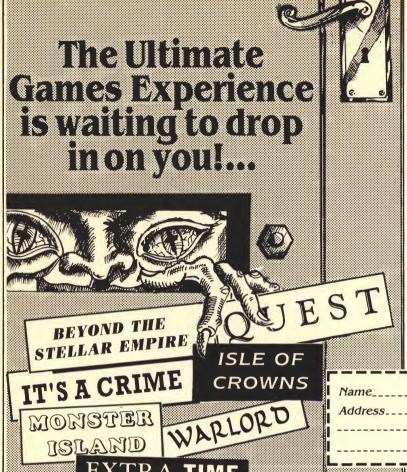
Why? Lots of nice detail and because I got urther than anyone else.

The end of the end

How much longer can the CPC go on? As long as people keep using it, is the simple answer to that little poser. The machine has already outlived its 8-bit competitors – the Spectrum is well and truly dead and gone and the C64 is a games-only machine which no-one is writing games for any more. The CPC still has lots of support. New serious products like the disc utility ParaDOS and the front-end system DES are among the best proves that there are still boundaries to be pushed back as far a games are concerned.

And here's one final fact to mull over. I used to write with Protext on the CPC. And right now I'm writing this feature with Nisus on the Macintosh. But it's not scrolling any faster, and the words don't read any better. The CPC may be a clonky old relic by today's standards, but it does the job. That's the CPC all over.

> The Amstrad Colour Personal Computer might be coming to the end of its life (and it's not giving up without a hell of a fight), but it's been quite a life. For 10 years it was the most powerful, versatile and genuinely useful 8-bit machine in existence. Can someone pass



KJC Games is Europe's largest and most advanced computer moderated Play by Mail Games company. When you join one of KJC's games, you enter a sophisticated and exciting' live' environment where you pitch your skills, and your wits against many other REAL live opponents from all over the UK and beyond. **KJC** offers a wide choice of games to suit all tastes and interests....Science Fiction, Sports, Adventure, Wargames, Street Crime & Fantasy Roleplaying are all possible in the unique world of KJC games. and....with KJC you get ... New Games being developed all the time... Colour Rule Books & Training Manuals... Newsletters & Contact with other Players...

Send now for the latest KJC Info and Free Tasters... Just complete the coupon below...

plus Friendly Club atmosphere.

	You'll be glad you did!	-≫3-
Name		
	Post Code	
	G. C D A. A. Durant of Theoreton Clausions	

KJC Games, Dept AA Freepost, Thornton Cleveleys, Lancashire, UK, FY5 3BR. Tel 0253 866345 Fax 0253 869960



EXTRA TIME

SMART Plus (Any Plus) £14.95 (disc) £13.95 (tape) mply the best art package for the Plus machine

FLUFF (Any Plus)

£7.95 (disc) £5.95 (tope)



BALL BEARING (Any CPC) £5.95 (disc) £3.95 (tape) Control the ball bearing through 10 action packed levels avoiding the nasties and collecting the specials. Tons of gorgeous graphics, and challenging gameplay make this an essential budget buy.

"Fantastic graphics and gameplay are some of this game outstanding features - 89%" - Amstrad Contact Review



We also sell New Maxell & Ex Software 3"discs. Please phone or write for our latest prices or to join our mailing list. All prices include postage & packing.



SPECIAL OFFER - REQUEST YOUR GUIDE BEFORI **VOUCHERS ALLOWING YOU TO SAVE UP TO £20 OFF THE PRODUCTS OF YOUR CHOICE!**

FOR INFORMATION ON WHAT SOFTWARE AND SUPPLIES ARE AVAILABLE, SEE OUR ADVERT FURTHER ON IN THIS ISSUE!



Transported down into a seemingly deserted complex, your eight crew members, (each with their own special skills), have to locate and retrieve a Security Item and repair the five generators which power the complex. Without the power restored, your crew cannot transport back up, plus the fact that it is dark and you can't see the aliens which are attacking your people until you get close enough to see them with your suit lights. With many objects to use including Light-Sabres, Medi-Kits, Energy Pills, Trackers and Teleport Rings, this strategy game will keep you glued to your computer for days. And with a different map generated every game you can be sure of a new challenge every time.

To order send a Cheque/PO for £4.99 Tape/£6.49 Disc made payable to A Swinbourne, to: CRYSTALX SOFTWARE, 11 VICARAGE VIEW, REDDITCH, WORCS B97 4RF. OVERSEAS ADD £1

DISCOUNTS

0% with the Dual-Mode Disk Drive 0% with ROM software of £20 and over

VIDEO DIGITISER

Now only £65.00 (see also D.I.Y. Kits)

is is the ROMBO VIDI. It captures pictures from y video source such as a video recorder, camera another computer and soves them to disc. The threes can be manipulated in many ways. Pictures in be imported into standard pockages like Stop sss, Advanced Art Studio, etc. VIDI software on ROM - add £5

32k RAMROM - £14.95

(see also D.I.Y. Kits)
2k of RAM that thinks it's two ROMs. When baded with ROM software, each 16k block ehaves exactly like a ROM, even surviving esets, until the computer is turned off. Its rimary purpose is to test ROM software withing handlearnest exiting the behavior and

EPROM PROGRAMMER with ZIF socket.....£35.00

ROMONOFF SWITCH £7.95

The above statement is untrue. Amstrad Action never presented such an award. Don't be deceived by any such ement wherever you might see it.

The No.1 3^{1"} disc drive package around. The price includes all of these:-

* MS800 on disc * MS800 on ROM * 22 Disk * 10 blank discs * Power supply * Carriage

Our drives do everything that all other drives do - and a good deal morel Check it out. MODE 1

Works as a complete alternative to the normal Amstrad 2nd drive (FDI), storing 180k on each side of the disc.

MODE 2
Full, unimpeded use with RODOS, RAMDOS, ROMDOS and ROMDOS XL, giving up to 800k per disc without the need to use the drive's clever side switch. Full 800k use of MS800 (see below).

OVERALL

Ultra quiet TEAC mechanism: can be used as a 14Mb drive on other computers; super small; separate power supply included; sleek, sturdy metal case. You need to buy nothing else to use your drive immediately. There is a 20% discount on the ROMBO ROMBOARD if it is purchased with the drive.

This drive is not suitable as a 161 1st drive.

nus arive is not suitable as a 161 1st drive.
Suitable as a 161 Plus 1st drive with an interface.
This drive is not suitable as a 464 1st drive.
Suitable as a 464 Plus 1st drive with an interface.

Please state your computer model when ordering.

MS800 - high capacity disc system

MS800 is the ONIX system:

AS800 is the ONIX system:

that does not need to be present for the discs to be used, that is compatible
with all software including CPM, that uses no memory at all, that can use its
discs in drive A (ABBA switch users) and that works with the Plus machines.

PROTEXT

\$230.00 U

\$250.00 M

\$250.00 M

28 BELMONT AVENUE BRADFORD BD12 OPA 0274 602180

UTILITIES

ONZO SUPER MEDDLER 13.95

BONZO BLITZ

ONZO'S FLASHPACK

er 60 powerful additions to BASIC for use hin your own programs. Produces stand alone grams. i.e. Flash Basic does not need to be

ONZO'S BIG BATCH

22DISK (Shareware)

es.	PROTEXT	£30.00	UTOPIA	£25.00
nany	PROSPELL	£25.00	MAXAM	£30.00
ures	PROMERGE	£25.00	MAXAM 1.5	£25.00
	PD GAMES	£3.50	VIDI ROM	£5.00
	6128 ROM	£25.00	MS800	£9.95

MAJOR CREDIT CARDS TAKEN

RS-232 (dual-channel)

£39.95

3rd DRIVE SWITCH12.95
ABBA SWITCH12.95
SIDE SWITCH (plug-on)5.95
ABBA & SIDE combined14.95
3" individual disc cases
3.5" discs10 for £7.50;30 for 20.00
3.5" locking disc box (40)
64k RAM PACK (DkTronics)39.95
Laure,

Kits that are not stated as machine specific work

All kits are supplied with diagrams and fu VIDEO DIGITISER

٥,	ready made.
cs	32k RAMROMTB
es	SIDE SWITCH3.0
r, ill	(alteration to your disc drive's cable)
s,	ABBA SWITCH*3.0
n	3rd DRIVE SWITCH7.5
o	Romonoff SWITCH4.5

464-6128 CONVERSION his is the complete 6128 circuit board which cludes the disc interface and the 128k RAM. The conversion is to replace the 464 circuit board with the 6128 one and the result is a 6128 in a 464 ase. A disc drive is also needed.

6128 POM* 6128 Plus TAPE socket* ...
(includes the REMOTE facility)
464 Plus DISC interface*. 464 Plus extra 64k RAM"15.00 We will fit the following kits for you if you send your computer to us:-

...30.00 64 Plus DISC interface. 464 Plus extra 64k RAM .. All prices include carriage SAE for fuller details of these kits

PRINTERS

6128 Plus TAPE socket....

(0257) O.J. SOFTWARE (0257) Fast Friendly Service

421915

ADVENTURES		DISK COM	PILATIONS	
Disk				DISK
Acheton £12.95	CLASSIC 4 GAMES	Draughts, Chess, Back	gammon, Bridge	£8.95
Avon (with Murdac)£15.95	MINDSTRETCHERS	Monopoly, Scrabble,	Čluedo	£12.95
Countdown to Doom£12.95	SOCCER MANIA	FMngrll, FMngrWCup	, Gazza, MProse Socc	£15.95
Giant Killer (Maths Adv)£15.95		ETTE COMPILATIONS		CASS
Kingdom of Hamil£12.95	DIZZY COLLECTION	Dizzy, Fast Food, Tr.ls	land, Magicland, F.World	£8.50
Last Days Doom/Hezarin£15.95	DIZZY EX. ADVENT		x, S/bound, Yolk Folk, Ra	
Myth (Role Play)£6.99	SUPERSTAR SEYMOUR		/West, Stuntman, Saves Pl	
Philosopher's Quest£12.95			s, WWF Wrestlemania	
Spysnatcher£12.95	HANNA BARBERA	Yogi Esc, Ruff & Read	y, Top Cat, H.Kong Phooe	y£4.99
A	Canada /C	I A STATE OF THE S	Duamaga	/11
ARCADE	STRATEGY/S	IMULATION	B OSINESS	U TILITIES
CASS DISK		CASS DISK		Disk
Alien Storm + Sh Dancer£12.95	Cluedo	26.99	Advanced Art Studio 6	128£19.95
Bonanza Bros£4.99	Colours 4 O Potelon		Adv Art + AMX Mouse	+ M Mat£54.95
Captain Planet£12.95	- 1		Colour Dump 3 (Col So	r Dumpl£15.95
Captain Blood£6.99	Colossus 4.0 Chess	£7.73	Court Course Trains To	

Alien Storm + Sh Dancer	£12.95	1
Bonanza Bros	£4.99	Е
Captain Planet	£12 95	Г
Captain Blood	66.69	
Captain Blood£3.75	00 13	П
Dizzy Crystal Kinadom C8 50	L4.//	
Dizzy Crystal Kingdom£8.50 Dbl Drag III + Rodland	C12 05	יו
C las		П
G - Loc.	£9.99	Н
Galactic Games	£0.99	Г
Incredible Shrink Sphere£12.95	£0.99	1
Lemmings£12.95		
Light Corridor	£0.99	١,
Midnight Res + Nightbreed	£9.99	١.
Mystical	£6.99	Г
Midnight Res + Nightbreed Mystical North & South	£13.95	ľ
Paperboy II	£12.95	ı
Pop Up	£6.99	ı
Pop Up£9.50	£12 95	ı
Rock n Roll	66 93	L
Rodland + Dbl Drag III		Г

ck n Roll£6.99	AMX Mouse & Interface
odland + Dbl Drag III£12.95	AMX Mouse + Adv Art + Mouse Mat
herical£6.99	Amstrad FD1 2nd Disk Drive
rider II + UN Squadron£6.99 per Cauldron£9.50£12.95	Cassette Alignment Kit (inc. Game)
enage Turtles £3.75 £6.99	
us the Fox£12.95	Cassette Lead (with REM Conn)
05 IIIe 1 0X	Disk Drive Cleaner 3"
SPECIAL OFFER DISKS	Disks 3" Maxell5: £12.50 10:
onanza Bros£4.99	Kboard Ext Leads464 £8.95, 612
onty Python£2.99	
onty Python£2.99 onopoly£2.99	Kboard Ext Leads 464+/6128+
onopoly£2.99 ff Shore Warrior£2.99	Kboard Ext Leads 464+/6128+ Printer Cable CPC
onópoly £2.99 ## Shore Warrior £2.99 porting Triangles £4.99	Kboard Ext Leads 464+/6128+ Printer Cable CPC
onty Python £2.99 onopoly £2.99 ff Shore Warrior £2.99 porting Triangles £4.99 vild Streets £2.99 tip Check £4.99	Kboard Ext Leads 464+/6128+ Printer Cable CPC

BUSINESS/UTILITIE	S
	D
Advanced Art Studio 6128£	19
Adv Art + AMX Mouse + M Mat£	54
	15
	20
D.E.S. ROM Version£	24
D.E.S. Disc Version£	14
Discology (Disk Utility)£	12
Mastercalc 128 (128k)£	27
Masterfile III (128k)£	29
	29
	59
Money Manager (+PCW)£	24
Proprint (Print Enhancer)£	15
Protext	21
Protext CPM (6128)£	51
Prospell£	20
Protype (Print Enhancer)£	23
	Adv Art + AMX Mouse + M Mat. £ Colour Dump 3 (Col Scr Dump) £ Crash Course Typing Tu 6128 £ D.E.S. ROM Version £ D.E.S. Disc Version £ Discology (Disk Urlility) £ Mastercalc 128 (128k) £ Masterfile III (128k) £ Microdesign + DTP for 6128 £ Microdesign + AMX Mouse £ Money Manager (+PCW) £ Proprint (Print Enhancer) £ Protext CASS £16.95 £ Protext CPM (6128) £ Prospell £

IIdiid 90 (1401 CFC+) .20.99		
Accessories		Prop Prote
ouse & Interface	£54.95 £59.95 £7.95	Pros Prot Tasv Tas-S Xero
ve Cleaner 3"		

11401 61 61 71.20.77	Molley Malager (Tr CTT)
Accresoning	Proprint (Print Enhancer)£15.9
Accessories	ProtextCASS £16.95£21.9
	Protext CPM (6128)£51.9
e & Interface£34.95	Prospell£20.9
e + Adv Art + Mouse Mat£54.95	Protype (Print Enhancer)£23.9
01 2nd Disk Drive£59.95	Tasword 6128£24.9
	Tas-Spell (For Tasword)£20.9
ignment Kit (inc. Game)£7.95	Xerox Disk Utilities£14.9
ad (with REM Conn)£3.95	Loverieue
Cleaner 3"£5.95	JOYSTICKS
axell5: £12.50 10: £23.95	CHEETAH Bug£13.9
Leads464 £8.95, 6128 £9.95	CHEETAH Mach 1£11.9
Leads 464+/6128+£9,95	KONIX Speedking£11.9
	KONIX Navigator£13.9
le CPC£8.95	QUICKSHOT Python 1£10.9
le CPC+£7.95	QUICKSHOT Python 1 Microswitch£11.9
litter£2.99	ZIPSTICK Super Pro£14.9
ory Expansion 464£44.95	Games Paddle£8.9

Fun School I U Fun School I 5 Fun School I 8

un ocnool 6-12		£0.7J	
un School II Under 6			
un School II 6-8	£3.99		ı
un School II 8+	£3.99		ı
un School III Under 5	£10.95.	£13.95	F
un School III 5-7	£10.95.	£13.95	ŀ
un School III 7-11	£10.95.	£13.95	П
un School IV Under 5	£10.95.	£13.95	(
un School IV 5-7	£10.95.	£13.95	9
un School IV 7-11	£10.95.	£13.95	ı
Playdays 3-8	£10.95		L
hoe People 4-6	£5.99		ı
ets Play with Words 4-8	£12.95.	£12.95	l
un with Words 7	£8.50.	£11.95	l
Read Right Away 1 5-8	£9.95.	£12.95	k
Read Right Away 2 6-9	£9.95.	£12.95	ŀ
Read Right Away 3 7+	£9.95.	£12.95	l
Setter Spelling 9+	£8.95.	£12.95	l
ets Play Numbers 4-8	£12.95.	£12.95	ľ
ets Play Money 4-8	£12.95.	£12.95	ŀ
Primary Maths 3-12	£24.95.	£24.95	ŀ
un with Numbers 7	£8.50.	£11.95	ľ
Target Maths 6-13		£12.95	ı
Micro Maths 11+	£24.95.	£24.95	h
Better Maths 12-16			Г
Mega Maths 15+	£24.95.	£24.95	l,
rench Mistress 11+		£16.95	ľ
German Master 11+		£16.95	ı
Spanish Tutor 11+		£16.95	K
Micro English 8-Ad	£24.95.	£24.95	ľ
The Three Bears 5+ (6128)		£12.95	lì
ive on Treasure Island	£9.50.	£11.95	l
Granny's Garden 6-10 (61	28)	£19.95	1
111 11 1 20 11 20 11			1

EDUCATION CASS DISK All printers listed below are suitable f

Under 5	use with AMSTRAD CPC, ATARI ST,
8-12£8.95	COMMODORE AMIGA, IBM PC &
Under 6£3.99	COMPATIBLES
6-8£3.99	When ordering please state computer
8+£3.99	
Under 5£10.95£13.95	PANASONIC KXP1170£144.95
£10.95£13.95	STAR LC100 9 Pin Mono/Colour£169.95
7-11£10.95£13.95	(Inc. Colour/Mono Ribbon + Colourdump 3)
/ Under 5£10.95£13.95	CTAR LCC 4 100 0 4 Pt 44
/ 5-7£10.95£13.95	STAR LC24-100 24 Pin Mono£219.95
/ 7-11£10.95£13.95	All prices include cable & delivery
£10.95	
4-6£5.99	PRINTER RIBBONS
Words 4-8£12.95£12.95	Quantity: 1 2 5

13.95	All a t		0 1 1	
13.95	All prices include cable & delivery			
	PRINTER RIBBONS			
12.95		1		5
11.95	DMP 2000/3000	£3.75	£7.00 .	.£16.25
12.95	CITIZEN 120D			
12.95	KXP10/1180	£3.75.	£7.00	£16.25
12.95	LC10/20/100	£3.75.	£7.00	£16.25
	LC24-10/20/200			
	KXP1124			£16.25
	LC10/100 Colour			
24.95	LC200 Mono			
11.95	LC200 Colour			
12.95	Other printer ri	bbons	please	phone
24.95	RIBBON RE-INK		2	12.95
12.95	BUDGET CASS			
24.95	Churchin Far CASS			

Double Dragon Driller F16 Combat Pilo Gunship Matchpoint Myth Quattro Cartoon Rick Dangerous Rodland

010.05	Other printer rik
£12.95	omer primer m
95£24.95	RIBBON RE-INK
95£12.95	
	BUDGET CASSI
95£24.95	Chuckie Egg
£16.95	Continental Circus
£16.95	Dizzy Magicland
	David Danas II
£16.95	Double Dragon II
95£24.95	F15 Strike Eagle
	Golden Axe
£12.95	Italy 1990
50£11.95	Matchday
£19.95	Outrun Europa
	Quatro Fantastic
£23.95	Rick Dangerous II
£15.95	Scooby Doo
£11.95	Soccer Double 2
£11.93	
	Steg the Slug
£7.95	Teenage Turtles

ragon World 6-10 (6128)

alive. Sceptical to the last, Simon Forrester challenges them to prove their case...

So what's wrong

with the PD scene?

Let's get down to the heart of the issue here there is a hell of a lot wrong with the PD scene at the moment. These problems haven't been caused by any one person with a particularly bad attitude, they're problems that have been slowly boiling over for quite a while now:

Xenophobia

Ask any PD librarian about why they're doing

what they're doing, and they'll go off into

flights of fantasy about PD keeping the CPC

hese PD people really do think they're

that although they all seem to have the

common goal in mind of continuing to support

applications, they never quite seem to manage to

The philosophy behind PD is great – freely

restrictions to speak of that anyone can copy and

pass on to other people without fear of a visit

from the anti-piracy brigade. If the programs are

good, and a lot of them are, then surely this can

only be a good thing for the scene? In theory, yes.

There's a side to the scene that maybe you

can out of the market instead of truly supporting

it, the freeloaders who're running libraries

What price do you pay for free software?

stocked with everyone else's software whilst

contributing nothing, and the perhaps double

standards of the commercial crossover we see

distributable software with no copyright

But there is a darker, less

constructive side to the CPC

needs to change before it can

PD scene, and guite a lot

truly be of some help to a

machine that desperately

needs at the moment.

so much of these days.

the CPC with cheap new games, utilities and

get along as one scene.

God's gift, don't they? It's quite surprising

Quite a surprising little idea, isn't it? There have been several instances of certain European fanzines attempting to 'boycott' the British scene, restricting membership on the grounds of race, and stuffing

"I'd prefer to see the British scene their pages full of racist running the same way as the jokes, and the European scene. Their method is like (the same much more productive." Keith Woods happens in

Britain, by the way). It was definitely a subject that most of the aren't aware of, such as the xenophobia between people we talked to had opinions on. libraries across Europe, the bias in many writers Firstly, Rob Buckley: "There's definitely a on the subject, the profiteering of some librarians problem in that the continentals tend to look who're determined to squeeze as much as they down on the British side, when the British side is

obviously the strongest market. They also tend to get very upset if you say anything about them. As

> you have probably found

you can't review things fairly. There is certainly a distinct difference between everybody else and this country. Whereas they tend to be professional hackers and

writers, the British users are just normal people." So this could be a problem of attitude, the British being too laidback (I somehow find that a little hard to believe).

PUBLIC DOMAIN

Some, like Matt Gullam, still see this scene as worthy (and why not?): "It is a bit sad. There's bound to be some sort of, 'we're British, we're best' attitude', but we try very hard on the British scene, and the rewards of our efforts are there for all to see." So maybe we're not all bad - we just do things our own way.

What inter-continental battle would be complete without Keith Woods? "I wouldn't call it racism. Racism is definitely far too strong. The British have a different way of doing things to everywhere else in Europe and, as far as I can see, that just naturally bought them into conflict with everyone else in Europe. The Europeans don't like the idea of PD libraries. Personally, I don't like libraries either, and I'd prefer to see the British scene running the same way as the European scene. Their method is much more productive, and creates more software. Everybody swaps with each other. That sort of thing never happens in Britain – there's no real contact between people."

So does this come down to a difference in the way the different scenes operate? Matt Gullam

certainly thinks so, and a different distribution system 05 BALLS

May 1994 AM STRAD ACTION

Meet the panel of **experts**

It's time to introduce our panel, the people we'll be talking to throughout this feature. Though we couldn't speak to everyone involved, we feel we've got a fairly balanced representation of the various people

on the scene for this one, as every side of the argument has been represented in some way: ROB BUCKLEY – Now here's a name that you'll have heard with amazing regularity of late, because of his exploits into the originally billed as having the best CPC gameplay ever, later billed (by AA) as having

the potential for some of the best gameplay ever, and receiving a full review this issue. Whatever happens to Fluff, though, we can rest safe in the knowledge that he's already got a couple of decent text adventure titles

• RICHARD FAIRHURST - What can I sav? He's been writing for AA for what seems like an eternity now, and he doesn't seem to be getting tired yet, despite running a PD library, writing both commercial and PD software (have you seen Powerpage 128 yet?), and generally being at university in Cambridge (he does a reet dossy course, though).

 MATT GULLAM – Having recently closed Presto PD, his long-standing and extremely successful (though always very laid-back) PD library, he's recently teamed up with Dan Heatley (oh no) of Quantum to set up PDQ, a new library that looks set to carry on where-Presto finished. This means that there'll be megabytes of amazing software that'll be almost totally unavailable because of postal delays, cashed cheques, and volcanos

engulfing Wales. What a team. DAVE MUGGERIDGE - The founder member of Amstrad Contact, a fanzine and user group for anyone wanting to keep up with the Bonzo Scrapyard updates (ex-Nemesis), isn't exactly an active PD person at the moment, but he did have a few things to say, and might just be making his grand entrance to the world of the

CPC very shortly. ADAM SHADE – He's been a member of pretty much every British coding or commercial group over the past five years. and is now running his own PD library (as he's been doing for quite a while), Dartsma PD. As a sideline, he also runs a service for making custom leads, and claims to be able to make a piece of wire up to almost any specifications at all. On starting the interview, Adam asked, "Do you want the truth, or what the people want to hear?" Needless to say, we opted for the truth.

 KEITH WOODS – Having written for AA in recent months, Keith has probably burnt his name into your mind already. With a bin-bag full of PD software, a fanzine that, if nothing else, evokes reactions of all kinds, and a very strong connection with the European scene, Keith has been steadily campaigning for the European invasion of Britain for as long as the CPC can remember.

would explain why so little software makes it in a different country. Keith did suggest that maybe the lack of communication and co-operation on the British scene might be causing a problem. Richard Fairhurst

sees the problem as basically judgmental: "People tend to see what one or two people do in a given country as indicative of everyone else in that country. It isn't So he's side-stepping the cliques that do really fair to judge Germany on the actions of [name scrubbed for humane reasons]"

Adam Shade, put it slightly differently: "Basically I think the Germans and the French think they're better than everybody else, the English, French and Germans think they're better than the Irish, and then the Irish think they're better than everybody else. I don't think it's a problem because at the end

Cliques

But the animosity

doesn't just exist on an

international level. Even

of the day everyone will realise who can do what and no matter who thinks who can do what everyone knows who can do what and will let them get on with it." You can't write stuff like this...

"There should be some sort of system where you have to be some we're not going to sort of registered library and to have a computer qualify for that you've got to with Britain there are certain reach certain standards." • Almost PD groups within the PD scene

that just can't get along. First up, we'd better talk to Adam Shade, since he's been a member of pretty much every single British group at some point or another: "It's a problem but it's not a problem. Because one person's not talking to the other, there's someone in the middle who's talking to both of them and stuff still gets passed around." CPC by Richard Fairhurst, to stop certain

Rob Buckley seemed cynical (what's new?): "Some of it I can understand - there are a lot of arguments going around and a lot of it you can understand but people just tend to argue for the sake of arguing. I've talked to people who've said, 'next time I see so-and-so I'm gonna do

need this and it's driving people out, which is sad. I try to be nice to everybody, but some people really do get on my nerves." So there are definitely some people out there with a dodgy attitude to this whole co-operation thing.

Keith Woods sees cliques as ultimately selfdefeating: "I don't think it's a big problem those people have pretty much had their day at this stage. Most of them have completely lost contact with everything. The way I'm working Public Image is sending all the software to everyone so I can say in Public Image that you can get hold of the stuff from most libraries." manage to survive.

Our techy guru Richard had an interesting point: "It mostly comes about because there are only so many people active in programming the CPC these days. There aren't enough active members." So the problem may be down to a simple lack of numbers...

It's at this point in subjective time that Dave Muggeridge summed up the big problem with what's going on: "It's a big problem. If Amstrad Action ever went to the wall (God forbid – Ed), the big problem is that all that will be left are all these little fanzines. What needs to happen is that should all get together to form one focal

point for the scene otherwise all the advertisers will go and they'll stop producing stuff for the CPC - it's that simple. If we don't do this then everyone will split up and go their own separate ways in their own little groups."

So it's pretty much agreed then - unless

left to write PD for.

Adam Shade It's a symptom of the general lack of togetherness in the PD scene according to some, but perfectly justifiable to others. What happens is something like this: when a programmer finishes a piece of software, they'll submit it to PD, but only allow some libraries to stock it. The idea was originally bought to the

> libraries stocking his software. Rob Buckley: "I personally think it's a way of cutting out different people, which might not be a bad idea. I'm against kids starting things up then disappearing during the exams."

Not everybody is so happy with the idea, though. Adam Shade:





nobody's writing games for the CPC anymore? PD programmers certainly are.

pathetic. You have to draw the line and stop there when it comes to PD."

Matt Gullam: "It's very good idea indeed because it keeps out the little guys – the squeakies, as I call them. I'm sure Richard Fairhurst would be most

annoyed if squeakies were making money on his work when Richard didn't want them to, and wasn't making any himself. But in the end it's up to the programmer."

And Richard Fairhurst, unsurprisingly, fully defends the system; "It's very much standard on a lot of computers. If you look at

a lot of PD software on other machines. such as the Amiga and the PC, you often need to contact the author of a program if you want to use it in a

AMSTRAD CONTA

ITIMS FOR SALE

BACKING UP D.I.Y.

Senii IIII Stay 2005 Intyles

Chances of

survival?

different types of software. Exactly what

survival of the CPC, though?

potential does all this stuff have towards the

the fact that I personally think demos are a

face it – no-one's going to keep hold of a

of identical programs with the same wibbly

wobbly text, copied music and coloured bars

running through the background, are they?

pointless waste of time, and a load of tedious.

epetitive, egotistical wibble, as I'm sure you've

managed to work out my views before now. Let's

machine because they like loading up thousands

● DEMOS – I don't think it's worth keeping secret

THE UKS DOLL SERIOUS EPC MRGAZINE ISSUE 74 £1.50 JANUARY 1994

> ny user groups and fanzines have onnections with Public omain libraries.

different PD collection." (This system is known as Licenceware – Ed.)

So Almost PD night not necessarily be a bad thing? But what about those 'squeakies' that Matt mentioned?

• Sq... Small-timers

By small-timers, I'm referring to the uncommitted librarians that both Rob Buckley and Matt Gullam speak of, who make money "If I was to say that PD does from their activities,

not make money, I would be stocking their libraries from lying to you." Matt Gullam other people's collections, and giving absolutely nothing back to

the scene. Are they causing real damage?

We'll start with the only positive comment on small-timers from Richard Fairhurst: "There are so many going under, you don't see many about these days. It's a shame really, because it's always

nice to see new people." Aah isn't that nice?

Matt Gullam: "They should definitely be discouraged. They're wasting their own time, and their customers' time. Customers would be far better off going to a more established library where the service is better, the range of software is better and everything's cheaper as well."

Dave Muggeridge: There are a lot of them at the moment that're jumping on the PD bandwagon by nicking everybody else's programs - they haven't got permission of the authors to send them out at all."

Adam Shade: "There should be some sort of

• UTILITIES AND APPLICATIONS - Now this is a bit more like it. The amount of serious software available through PD for your machine is truly staggering - if you don't like the way your file copier works, you can lay your hands on anothe 20 that might suit your needs a little better. The serious software available far outnumbers the games, and is probably what draws programmers to PD in the first place.

 GAMES – The quality of PD games varies dramatically, with some programmers releasing their software on PD because they know damned well that no-one would ever pay real money for it in a million years. Don't let this mislead you, though, as there are some really good titles out there (Croco Magneto, for instance, which was good enough to inspire the commercial release of Ball Bearing). You'll just have to look really hard, that's all (or read Public Image every month

But it's all such good

Okay, so the PD scene produces an awful lot of dross (now don't argue) but when it does churn out something half decent, you can bet it'll

reach a quality rarely seen in larger commercial releases. So what are the differences between a professional programmer at US Gold and a teenager in their pedroom? These differences, after all, are what have pushed the CPC firmly into the PD scene. ■ IT'S A HOBBY, NOT A JOB. There's a great

deal of difference between someone finding they've got a couple of hours free in the evening and settling down to add some more to their very own game, and a fully-paid programmer knocking out a CPC version of a game because that's his job, clocking off at six and forgetting about the whole thing until the next morning. You can be pretty sure that someone who's writing a game because they really want to do it is going to come up with something a thousand times more detailed and original than their commercial interpart (well, in theory, anyway) CONVERSION TIES. If a commercial programmer is doing a CPC version of, for example, Street Fighter 2, they're restricted

to producing a clone of the original on a less

powerful machine. This means that animation,

sounds and speed are all compromised to get

the job done. The only problem is that if you

take away the sounds, animation and speed,

you've pretty much destroyed most console

- games anyway. The real problem comes when the programmer tries to make up for this by adding extra gameplay elements to the whole thing, but is restricted by the contents of the original game that he is, after all, converting. A program originally written for the CPC, then, is obviously going to make better use of the CPC's capabilities. • NO MACHINE LOYALTY. This may sound a
- bit drastic, but it's not as Victorian as all that the CPC as well as the C64, Amiga, ST, PC and probably a console or two, a dedicated CPC nut will have a complete knowledge of way, could Zap'T'Balls have been written as well as it was if Elmar Kriegar hadn't already spent several years learning every little glitch, trick, or undocumented area of the
- INDUSTRIAL SCHEDULES. If you've been nvolved with the PD scene at any time (even as a customer), you'll definitely have noticed the release dates of games sliding back to allow the programmer to put in some extra work on their masterpiece. In a commercial software schedule, this kind of elastic timing isn't really possible, as programmers are tied to duplication dates and, most of all, release dates. With an industry that only has a few major release periods of the year (Christmas being the main one), a set-back could mean missing a sales drive altogether, and probably forfeiting most of the profits because of it.

system where you have to be some sort of registered library and to qualify for that you've got to reach certain standards. If you get too many bad words you should be cut off until you can build your name back up again. This way, Joe Bloggs can't say, 'I'm a new library, give me your money,' and stop established libraries getting it. If someone's many people starting up then not being bothered, not returning discs, etc."

So they all agree that there is a problem. It's just whether anything should be done about it – Rob Buckley: "It is a bit annoying that you do produce a bit of software and other people make the money out of it, but you have to accept that."

Commerciality

Making money, eh?

There are two sides to this one first, there's the issue of PD libraries making money. There are guite a lot of libraries that are said to be overcharging, and the original idea of PD was that it was supposed to be free. The other side to this concerns PD coders who decide to sell their work commercially. Can this be justified, or is it betraying the PD scene?

Rob Buckley who, let's face it, has made just such a transition, kicks off this round: "You don't see any profit. I've done it because nobody else is. If you know of anybody who does make any money from the CPC scene, I'd like to talk to them.'

Try Matt Gullam; "If I was to say that PD does not make money, I would be lying to you. PD does make money, but if you're a part-timer the amount of money that you make in relation to the amount of time you put into it if you're running it properly, collecting software, giving a good service is very, very small indeed. If you were doing it as a fulltime job you'd be a very rich man. I agree that everybody should have the best of everything and it should be free but if I'd written a program and it was very good, by donating it to PD it's the

librarians making the money not the

can see their Everybody's got to start somewhere, and they're starting on

the PD scene." Keith Woods: "I don't see it as a problem

 I see it as a good thing. starting up, good luck to them, but there are too PD is helping the CPC market by producing commercial stuff. You look to Soundtrakker and that sort of thing. They're the results of people who've started coding for

> PD and got good at it, doing major projects that take them a few months do. After that length of time, it's only fair that it should go commercial. There's Megablasters from Germany – Odiesoft spent months and months on it, so it's only fair he should see some money from it." Richard feels the

> > same way as most about profitable libraries, and backs up commercial sales to the hilt: "If you

wanted to get into making money, you could find other

ways, such as selling your stuff commercially. It's nice to do both, really. For example, Powerpage 128 couldn't go into PD totally because of all the work I've put into it recently - it wouldn't be fair on me."

Adam Shade: "No libraries should charge more than 50p per side. I don't think libraries should make much money, which is why I set up a computer supplies business to fund the library. As for people going commercial it's a shame because less good-quality PD comes along, but it's good because it's still supporting the CPC, it's opened up more software houses which means more software can be written because there's more encouragement to write it. The titles they produce aren't expensive as the companies themselves have lower costs and as long as they keep the prices down, Mings and of what's it

So for the CPC, commercially releasing

to the PD scene, though? If you look around the ads for PD libraries, you'll find quite a few of them charging a hell of a lot more than 50p per side (disc not included) – is this right?

What to do?

We can sit here and speculate about all the things that are wrong with the scene, but unless we sit down and take some decisive action on this, the PD-scene is never going to be strong enough to support the CPC.

Keith Woods has started up a scheme whereby he distributes every piece of software he reviews in AA to the major libraries in Britain. As far as we know, this is the only vaguely hopeful scheme underway. In classic British style, there is someone disagreement over the scheme.

Matt Gullam: "I don't agree with Keith's idea. A lot of people have PD libraries that they like and they stick to. People can come across them by accident or recommendation or whatever, but they like what the library stands for, If Keith starts sending this stuff out, people would start writing letters saying 'can I have all the programs reviewed in the last AA,' or whatever, and they wouldn't experience the wider range of software available."

Adam Shade has a slightly different system for sending out PD: "There are too many nobodies with the same stuff, ordering from every library to stock theirs. The biggest problem is that you order one program, and everything else on the disc is rubbish. The way my system operates is with people picking and mixing their own programs."

Rob Buckley: "We need to get a lot more commercial software on to the scene, such as the stuff that's on the covertapes - people need to persuade these companies to release the stuff that isn't available commercially anymore on to the PD scene. Nothing is commercially viable."

Probably the most distressing aspect of this feature is that no-one has any real idea or action plan as to how to knock the PD scene into shape. Once the right people start realising that their actions, methods and morals are damaging the scene they'll find it much easier to actively help the machine they're using. We all want to see the CPC live for a long time yet, and as things stand right now that's just not going to happen.

If anybody out there reading this has any real ideas as to what we can actually do about all of this, we'd be more than happy to hear from you, just as we'd be prepared to spend as much time

> on this as is possible to actually try and get something done. We're

MINITACC. THE FINAL CLEARANCE!

When the MULTIFACE was launched in 1986. it was an outright winner. No one has ever come up with such a powerful, useful add-on, Labeled the ESSENTIAL CPC COMPANION, this MULTIpurpose interFACE proved to be an absolute Godsend for the Amstrad CPC users. Remember the first disk drive on the CPC 464? Suddenly the loading took seconds rather than minutes from tapes. Except that there was not much to load - very little had originally been released on disks and there was no facility to transfer programs from tapes to disks.

THE SAVIOUR

This is one area where the MULTIFACE saved everything - literally. The black magic box could stop anything any time and SAVE it to disk or tape. When the 6128 came with a built-in drive, it was left again to the MULTIFACE to do all the transferring - and to perform other miracles... So, in case you just came from Mars, what does a MULTIFACE do? First, it sits at the back of your CPC, its magic button always ready. Press it, and the MULTIFACE takes control!

ACTION!

Once in action, it freezes everything and it lisplays its own menu. Being fully menu-driven and error-trapped, you'll probably never need the full manual that comes with the MULTIFACE Most operations are also entirely AUTOMATIC. so to *SAVE* a game once you stopped it, you ust *name* it, insert *disk/tape*, and press a key You can then *return* and *continue* the program. lf vou get beaten later on, just reload from where you saved last and play just from there again No need to go back to the start all the time. Or even better, the Multiface allows you to POKE

INFINITE LIVES

sted in this magazine and you'll never loose The MULTIFACE comes with a built-in TOOLKIT that lets you inspect/alter/dump the CPC RAM t also has its own 8K RAM and 8K ROM. Many top programs were written with the aid of the TOOLKIT and the extra 8K RAM. And do you like the screen shots in this magazine? They are all produced using the MULTIFACE! pull out of the 8-bit market, the surge of interest in the MULTIFACE was such, that we had to make many more. And not just the MULTIFACE we also have the one and only disassembler,

THE INSIDER

that lets you see and alter what happens any time anywhere inside a RUNNING CPC program. It comes on a disk and loads inside a MULTIFACE. Press the magic button and the INSIDER will disassemble, find text/code, dump the CPC RAM to printer, etc. Get it at HALF-PRICE for £7.95!

LAST CHANCE!

As this goes to press, we still have enough stock of both the MULTIFACE and INSIDER. This, however, is our final clearance and once these are sold, we will NOT make any more. The MULTIFACE is terrific value, in fact more for the customer than for the manufacturer... We will only accept orders when we can supply the goods and we give a full guarantee. Plus we still offer up to £10 OFF! mail orders!

You MUST NOT use our products to copy, reproduce or infringe in any way whatsoever any copyright material without the permission of the copyright owner. We do neither condone nor authorise the use of our products for the reproduction of copyright material - to do so is ILLEGAL!

All prices are already discounted and apply to Mail Orders to 31.5.1994 only.

Order a MULTIFACE 2 for CPC 464/6128	PLUS P&P: UK and Europe £2 Overseas £3.
I enclose a cheque/PO/cash for £ or debit my Access/Visa No.	Card Exp
Name/address	

ROMANTIC ROBOT, 54 Deanscroft Ave, London NW9 8EN 24 hrs _ 081-200 8870 2 AA

COMPUTER REPAIRS



Quality Assured!

* AMSTRAD AUTHORISED *

★ Fixed price repairs on many machines

★ Over 2500 square foot engineering complex ★ Top quality technicians at your disposal

* All work warranted

* Fast turnaround

★ Simply post or hand deliver your machine and we will do the rest

Collection Service available Please supply evening and daytime telephone numbers

Amstrad 464

Amstrad 6128 £33.00 (extra £25 if disk drive needs complete

replacement)

All monitors

£15.00 Diagnostic charge plus quote

Others

WTS Electronics Ltd reserve the right to refuse machines that in their opinion are beyond reasonable repair. Full charge applies.

Tel: 0582 491949 (4 lines) WTS Electronics Ltd, Chaul End Lane, Luton, Beds LU4 8EZ

AA

£24.00 *

£28.00 *

P.O.A

P.O.A

P.O.A

AMSTRAD REPAIRS

* Quality repairs at unbeatable prices

* Standard charges on most repairs

* =FAST = Turnaround

* Free technical support /advice/information on all repairs carried out

* All repairs guaranteed

AMSTRAD 464 AMSTRAD 6128

(exc. disc drive replacement)

MONITORS PCW's

P.C's

*(Postal repairs - please add £3.50)

Established repairers to the Trade/Education Amstrad - Amiga - Acorn - Commodore - PC's etc

(Est'd 1986)

(Hindley Electronics ComputerCare)
47-49 Railway Road, Leigh, Lancs. WN7 4AA. Tel: (0942) 261866/672424 May 1994 AMSTRAD ACTION

When we asked Simon Forrester to take over the reigns on our beginners' guide to BASIC he went a bit loopy...

it in now, pressing RETURN or ENTER

wanted to display something other than

As you'll see if you type in this

executed - they're there to tell the CPC

Was that

Sure, you could have

used PRINT "4", but

let's compare the

results of the

If you typed in both of these lines,

you'll have realised the effect of speech

marks - they tell the CPC to print

everything that's between them. If we

sum and prints the answer instead,

earlier, if you think about it, was

because the answer to the sum '4'

leave them out, the CPC works out the

The reason you didn't notice this

maths?

command, the speech marks aren't

displayed when the command is

that what has to be printed is text

to make the command work. If we

a number, the command would be

slightly different:

PRINT "Wibble"

(words) and not maths.

following commands:

PRINT "4+3"

PRINT 4+3

which is seven.

doing nothing is '4'.

ight, you've got me doing this column now, so like it or lump it. But everyone who's quaking because they've

read my Assembly Line series and made about as much sense of it as the final episode of The Prisoner need have no fears. I'll be gentle. Honest. And anyway, the sooner I get you conversant in this BASIC stuff, the sooner you can get reading my equally superb machine code programming series. Okay?

By the end of this spread, we're going to have written a program that displays times tables on the screen and introduces you to the concept of FOR/NEXT loops. Before we do that though, let's have a quick recap of the command we

Filling you in

Oops - it appears that we made a teensy bit

of an oversight a few months ago, when she

machines, which is why the programs didn't

drew rockets on the screen - 464 owners

don't have the FILL command on their

work for them. Sorry n'all.

want to use, being PRINT: PRINT 4

If you've been reading the previous installments of this series, you'll already know that this command will PRINT the number 4 on the screen. You can type

Follow the leader Before we write our

big program, there are a few more things to learn. First, not everything to be printed on the same line has to be in the same PRINT command. Type in and run the following program: 10 PRINT "Amstrad"

20 PRINT "Action" The results are the words Amstrad Action printed on separate

lines. Let's add one single symbol to the very end of line 10, though:

10 PRINT "Amstrad";

Did you notice the ';' on the end? We don't have to type in line 20 again because you've already done it once and it's still in memory, incidentally. This time, you should see the two words printed on the same line. There isn't a space between the two words. but you can insert one of those by altering line 20:

20 PRINT " Action'

But what is actually happening here? Well, if you think about it, the PRINT command acts as a kind of typewriter – it displays the letters it's told to and then takes great delight in pushing that little lever and sending the carriage whanging back to the beginning of the next line. In fact, we'll call that last part a carriage return. When we put a semi colon after the quotation marks, we're telling the PRINT command not to send the carriage back. It's as simple as that.

This symbol also means we can string things together:

PRINT "Six plus seven is";6+7

I think you can see how easy our times tables program is going to be...

The first program

This is it - we've got what it takes to write a seven times tables

program, as long as we remember that the CPC's multiplication symbol is a "":

10 PRINT "1 times 5 is":1*5 20 PRINT "2 times 5 is";2*5 30 PRINT "3 times 5 is";3*5 40 PRINT "4 times 5 is";4*5 50 PRINT "5 times 5 is";5*5 60 PRINT "6 times 5 is";6*5 70 PRINT "7 times 5 is";7*5 80 PRINT "8 times 5 is";8*5 90 PRINT "9 times 5 is";9*5 100 PRINT "10 times 5 is";10*5 110 PRINT "11 times 5 is":11*5 120 PRINT "12 times 5 is":12*5

It's a bit long winded, isn't it? For all those who blindly type everything in as you go along without reading the whole article first, you've just learnt your

lesson – there is a much simpler way of doing this sort of thing with loops...

Loops Now don't deny it - I

know for a fact that Clur has introduced

you to the GOTO command before. The idea is that if, on line 20 of a program. you wanted the CPC to carry on from line 70 instead of line 30, you'd use:

20 GOTO 70

And the CPC would jump to that line. So if we had the program:

10 PRINT "Wibble" 20 GOTO 10

It would carry on printing forever. Bummer, eh? What if we wanted to print it, sav. 12 times?

10 FOR a=1 TO 12 20 PRINT "Wibble"

30 NEXT a

Oh ick – a complex fing. Let's take a look at line 10 a bit more closely - it's saying that FOR this loop, a will equal (=) all the numbers from 1 to 12. This means, as there are 12 numbers from 1 to 12 inclusively, that we want this loop to go around 12 times.

Line 30 is a bit simpler; it's telling the CPC that a should be increased to the NEXT number, which means going back to the FOR command on line 10.

If all of this isn't making sense in your head right now don't worry too much – it's not vitally important that you know how this works straight away. Let's try something a bit more scary (you can tell he's getting into the swing of this - Dave):

10 FOR a=1 TO 12 20 PRINT a

30 NEXT a If you give this one a try, you'll find Okay, so it's a rotten gag, but it that the numbers from 1 to 12 are gag, okay? Anyway, b is displayed on screen, because these are the numbers

you don't always have to use the PRINT command in full - if you typed:

variable a contained when the loop is repeated (that's what the FOR/NEXT loops are all about as explained earlier).

> A giant leap...

From here on, we've pretty much got everything it takes to do this properly now -

all we're going to do is alter line 20 in the last program:

20 PRINT a; "times 7 is"; a*7

Confused yet? Run the program, and you should be pleased.



But I know my sevens!

It is a bit of a problem, isn't it? Well, seeing as Clur so eloquently explained

variables (letters that represent numbers), I think we can safely use another one:

20 PRINT a; "times"; b; "is"; a*b

It does get a little difficult to follow, what with all the speech marks and semi colons, but what we're printing is the value a., the word "times", the mystery value b, the word "is", then the result a **★b**. What's b, though?

2b or not 2b...

illustrates a point. Actually it doesn't, but... erm... Look – it was just a rotten

> going to represent the number seven in our earlier version. so that if we insert the line: 5 b=7 The program

should run as it did. If we want a different table, all we have to do is

As a handy tip to speed up your work,

and Family MI HAN

BEGINNERS' BASIC 2

25+3

You'd get the answer as 8 just as you would if you'd have used the PRINT command in full. If you typed in a program line as:

10 ?"Wibble"

It would get automatically padded out as: 10 PRINT "Wibble"

Just thought you might like to know.

change the figure in line five, which is a lot easier than going through the program changing the thing by hand.

There is another little method, though, which makes your program even better - you've used it already in an earlier installment, so let's give a big hand for the INPUT command...

5 INPUT b

So now when you run your program you'll be able to type in the table you want, and the CPC will do all the working out (and why not? That's what it was designed for). There are no limits, either - if you wanted your 3.487 tables, you could get them, as you could your 138s

That's what makes BASIC and computers in general so powerful - they just go ahead and do exactly what you tell them, no matter how complex the numbers are, or how long it takes.

This is one of the main features of computers that makes them so useful they know numbers because that's all they basically are, and they'll do whatever you tell them without asking any stupid questions. This may make me sound like a total sociopath, but it makes sense - computers are only any use to us because they don't think for themselves; they do exactly what we tell them to instead. Over the future episodes of Basically BASIC, we'll be finding out just how far we can push the CPC before it says, "no!"

FOR/NEXT month

What do you want to learn? If there's an aspect of BASIC that's puzzling you, why not write in and let me know - we might be able to help you out, and teach the mass BASIC learning population something at the same time. If you do have a query, why not write on in to Basically BASIC at the usual address, and we might just be able to help you out. Failing that, next month we'll be looking at making pretty patterns on the screen (how about a colour spread for that one, Dave?).

RAD ACTION

May 1994 AMS



(0295) 73 00 60

FOR DETAILS OF A GREAT SPECIAL OFFER SEE OUR OTHER ADVERT TOWARDS THE FRONT OF THIS ISSUE!

Business, applications & utilities software

c Base (464/6128)£12.45 Mailing List (464/6128)£12.45

o Art (runs on 64K CPC's)...£14.95

...£15-25

state) Smart PLUS£14.95 (TAPE £13.95) Take advantage of your "plus" machines enhanced graphics capabilities with this superb art package - all the normal features are also

DANYE CLEANERS

3" Disc Head Cleaner £3.95 3.5" Disc Head Cleaner £3.95 5.25" Disc Head Cleaner £3.95

Address management and printing made simple Graph Master (464/6128)£14-95

Graph Master (464/6128) ... £14-95 Display your figures as pies, bars, lines and more Stock Accounting 6128 ... £39-95 Integrated stock control and invoicing DES ... £14-95 (2 ROMS £24-95) New Desktop Environment System – see AA102 Picture Discs 1 & 2each £12-45

Clip art for Page Publisher/Stop Press (please

All serious programs are supplied on 3" disc unless otherwise stated above

PROGRAMMERS

WE WISH TO FURTHER EXPAND AND WOULD LIKE US TO SELL IT FOR YOU THEN WRITE FOR DETAILS OF OUR EXCELLENT

GAMES SOFTWARE

Cloaker - Cloak your 14-strong fleet ready for battle General X - Promote your 10 units to general statust Mantis - Rescue the caved terraformers with 3 craft Pacifist - Save 3 armies from destroying each other

BLANK DISCS & CASES

3-5" Disc Labels: 20 - £0-65 50 - £1-25 100 - £1-95 5" Disc Labels: 20 - £0-45 50 - £0-95 100 - £1-95 10 x 5.25" Branded Discs - £

DISC STORAGE

10 3.5"/6 3" capacity Library Case £1.75
3.5"/30 3" capacity Lockable Box £5.45
3.5.5"/60 3" capacity Lockable Box £6.45
3.5.5" Banded Discs x0 £23.95 x80 £4.99
5.5.25" capacity Lockable Box £6.45
3.5" Banded Discs x0 £23.95 x80 £4.99
5.5.25" capacity Lockable Box £6.45
3.5" Bulk Discs x40 £23.95 x80 £33.9

ACCESSONEES

MOUSE BITS
Mouse Mat Mouse Ho
£2.95 £1.99 DUST COVERS
Keyboard Mod
£3.95 £

1 NORTH MARINE ROAD, SCARBOROUGH, NORTH YORKSHIRE Y012 7EY. IF YOU'RE IN THE

SCARBOROUGH AREA, COME IN AND SEE US. OPEN:

Mon-Sat 9.00am-5.30pm, TEL: 0723 376586

GRAND PRIX SIM

INT FOOTBALL RUGBY COACH

THE BOXER LEAGUE FOOTBALL

FOR YOUR COPY

NEW Product Guide available - Write or phone for yours. Postage in Britain is FREE. Overseas please add 20% Please make cheques/postal orders (sorry no credit cards - yet!) payable to ULTRA SOFTWARE and send your order to Ultra Software (AA104). Fulling Mill, Broughton, Banbury, Oxon OX15 6AP

TWO DIZZY GAMES FOR £5 *

AMSTRAD CASSETTES

AKCADE FRUIT MACMINE	G-LOC (120)	
ARKANOID REVENGE OF DOH £2.99	GAUNTLET 3 (128)	£3.5
ADDAMS FAMILY 128 only£3.75	INTERNATIONAL FOOTBALL	£2.9
BALLOON BATTLES£2.99	JETSONS	£3.9
BONANZA BROTHERS£2.99	JAHANGAR KHAN SQUASH	£2.9
BUBBLE BOBBLE£3.75	LEAGUE CHALLENGE	£2.9
CRICKET CAPTAIN£2.99	LEAGUE FOOTBALL	£2.9
CRYSTAL KINGDOM DIZZY£2.99	LINE OF FIRE	£2.9
CHIPS CHALLENGE£2.99	MASTERS OF THE UNIVERSE	£2.9
COLOSSUS BRIDGE£2.99	MOTOR CYCLE 500	£2.9
DAN DARE£1.99	MURTI-PLAYER SOCCER ***********************************	.£2.9
DARKMAN£3.75	MINI OFFICE	£2.9
DIZZY PRINCE OF YOLKFOLK £3.75	NARCO POLICE	
EDD THE DUCK£2.99	PLAYDAYS AGE 3-8	£4.9
EUROPEAN SUPER LEAGUE 128£2.99	RAINBOW ISLAND	.£3.7
F15 STRIKE EAGLE£2.99	SIMPSONS	£3.7
FIRST PAST THE POST£2.99	SOOTY'S FUN WITH NUMBERS	-

ANY 2 FOR £5.00

STRIKE ... 62.99
TEXMINATOR 2 ... 63.75
TEST MASTER ... 62.99
THOMAS THE FAME RUN WITH
WORDS AGE UP TO 7 ... 64.99
THERE CHAMPONS ... 62.99
WAY OF THE EDPLONNE RST 12.99
WAY OF THE EDPLONNE ST 12.99
WAY OF THE EDPLONNE RST 12.99
THE EMPRES STRIKES BACK ... 62.99
THE EMPRES TRIKES BACK ... 62.99
T

CASSETTES OUR CHOICE MIXED TITLES

10 FOR £5.00

AMSTRAD DISKS

AA.D.A.M. ASSEMBLER	SOUNDTRACKER, COMPOSE	FLYING CIRCUS£4.99	THOMAS THE TANK ENGI
+ DISASSEMBLER MONITOR	YOUR OWN MUSIC WITHOUT	MYTH£7.99	FUN WITH WORDS
£5.99	MUSICAL KNOWLEDGE12.99	NIGEL MANSELL£8.99	BOTH AGE UP TO 7 YEA
ARACHNOPHOBIA£3.99	FOOTBALL MANAGER 3 £8.99	PROBMX3.99	£15.00 FOR
BONANZA BROTHERS£5.99	HERO QUEST£4.99	ROCK STAR ATE MY HAMSTER3.99	
CAPTAIN BLOOD£6.99	JET BIKE SIM3.99	SUPER CARS£6.99	
	LOTUS ESPRIT£6.99		
COLOSSUS CHESS	MERCS£7.99	SOOTY'S FUN WITH NUMBERS	
EQUINOXE - MUSIC	MONTY PYTHON'S	£8.99	
	DISK COM	PILATION:	S

0	LOTUS ESPRIT/SUPER SCRAMBLE/TOYOTA	+ RETURN OF THE WITCH LORD	VOL 1 3.99 (FRENCH INS
	CELICA GT/SUPER CARS	DARK FORCE £6	.99 GHOST HUNTERS/PRO SNOOKER
	GALACTIC GAMES £5.99	MIDNIGHT RESISTANCE/NIGHTBREED	SIM/PROFESSIONAL SKI SIM
-	100M SLITHER/SPACE HOCKEY/PSYCHIC JUDO/	COMPUTER HITS 4 £7	.99
	HEAD THROWING/METAMORPH MARATHON	ANTIRIAD/REVOLUTION/DEACTIVATORS/DA	
	A SOCCER SIMS 64.99	/STARQUAKE/SPIN DIZZY/ELEKTRAGLIDE	GX4000/6128+/464+ CARTRIDGES
	11-A-SIDE SOCCER/5-A-SIDE INDOOR/	VOL 2 4.99 (FRENCH INS	
	STREET SOCCER/SOCCER SKILLS	SUPER STUDIEMANUTAMPIRE/DIZZI/GRAIND PR	
	BLANK 3" DISKS EX SOFTWARE		10 FOR £7.99 OR £1 EACH
	100 CAP 31 - 3" DISK BOX		£5.99
	PYTHON 1 JOYSTICKS		
	I ZIPSTICK		£12.99
	CRUISERS		.69.99
-			

CASSETTE COMPILATIONS

THE BIZ THE ROBOT MONSTERS 4,99
DOUBLE DAGGON & THE COPENION WOURSONS 4,99
DOUBLE DAGGON & THE COPENION WOURSONS 4,99
DOUBLE DAGGON & THE COPENION WOURSONS 4,99
ATIVPHINALIZEMAYTENNISRUGGY/
MIG 29/FRUIT/CPS
MEGA MIX 4,99
OPERATION WOURDAGON NINUA/REAL
GHOSTBUSTERS BARBARIAN 2
COIN OP HITS 2

MEGA PIX
SWPOPEY/POSTMAN PAT 2/HUXLEY PIG/
SPINIT/MATCHDAY 2/STEVE DAYS SNOCKER

4 SOCCER SIMS SOCCER STAR SNOOKER MANAGEMENT STRIKER FOOTBALL DIRECTOR BANGER RACING

IGHTENSKATE CRAZY

IGHTENSKATE CRAZY

9.99

IAMPIONSHIP JET SKI/ATV

BMX SIMULATOR 2

TS

ARAUDEN/ET

ARAUDEN/ET

ARAUDEN/ET

1ST DIVISION MANAGER ANY 3 SPORTS GAMES £5.00 + P&P PLEASE GIVE 1 **ALTERNATIVE**

GAMES SUBJECT TO AVAILABILITY. PLEASE NOTE - A PHONE CALL RESERVES YOUR ORDER.. CHEQUES + POSTAL ORDERS MADE PAYABLE TO WIZARD GAMES OVERSEAS £1.00 PER ITEM P+P. ORDERS £5 AND UNDER ADD 50P P+P

Don't miss out on this amazing cost-cutting special offer!!! The more you buy the more you save!!!

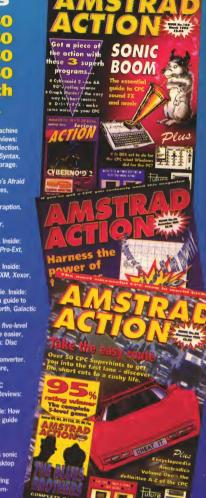


AAS1: Covertape: Forbidden Planet, The Addams Family (demo), Sprite Designer. Inside: Fanzines, buyers' guide to DTP.
AAS2: Covertape: Lemmings (demo), Dragontorc, PowerPage. Inside: Making dosh from programming, guide to art packages. Reviews: Lemmings, Addams Family.
AAS3: Covertape: Defenders of the Earth (demo), Drehdriss, Supersonic (music), Inside: The French CPC scene, buyers' guide to educational software. Reviews: Turbo the Tortoise, Grell and Fella.

AA84: Famous Five on a Treasure Island, Notepad, Liteprog. Inside: 30 games. Reviews: Hideous, Brunword ROM.
AA85: Covertape: On The Run, Link, Worktop, Disk Organiser. Inside: Making music. Reviews: American Tag Team Wrestling.

ROM round-up, Campursoft interview. Reviews: ZXM, Xexor, Cart round-up.
ABG7: Covertape: Zzap Assembler, Rik The Roadie. Inside:
The best software you can get for under a fiver, a guide to debugging. Reviews: Ultimate Sprite Searcher, Forth, Galactic Warfare, Ball Bearing.
ABS8: Covertape: The Blues Brothers – complete five-level game. Inside: 50 tips to make your computing life easier, Sentinel interview, Encyclopaedia Part 1. Reviews: Disc Imager, Zack Game Creator.
ABS9: Covertape: Stormlord, Font Editor, Grab Converter. Inside: DTP round-up. Reviews: Homebrew software, ProPrint ROM, Stellar Outpost, fanzines.

AA100: Covertape: Elite, Inside: The Top 100 CPC products ever, a look back at 100 issues of AA. Reviews: Touchdown, Page Publisher,





Amstrad	Action	Back	Issues
----------------	--------	------	--------

	Name	I would like the following back issues	
ť	Address		
S		Cost of back issues	
E	Post codePhone No	Please add £1 for postage and packaging	
	Method of payment (please tick)	Total cost	
7	Access Visa Cheque PO	Please make all cheques payable in pour	
	Credit Card No Expiry date	Future Publishing Limited, and send the	

New lower overseas rates: Europe £4 • Rest of the world £6

Street

£ . for postage and packaging_f________ all cheques payable in pounds sterling to shing Limited, and send the whole lot off to AA Subscriptions, Future Publishing, FREEPOST,

Somerton, Somerset TA11 7BR.

MACHINE CODE

Verifyina

This routine simply reads in every sector on every track, making sure none of them are unreadable. The 'making sure' bit is a bit of an exaggeration, as it just keeps reading sectors until there's an error. This is an easy solution to a more difficult problem.

.verify:ld hl,buffer ld de,0

ine e djnz verlpb inc d pop bc

ld a,0 ret

.vererr:pop bc ld a.&ff

Next month

That's all there's space for this month (Dave really is such a stinge with pages, you know). Next time, I'll be taking a good look at something a lot more applicable to 464 owners who'll be protesting outside the office by the time you're reading this - we're going to write a programming toolbox that'll help us with all sorts of horrible programming problems.

In the meantime, you can do one of two and send it in for issue 106 – the winner will one each month will receive a cash prize (probably a measly fiver,

The odd thing about using separate driver

Formatting

format:ld a,&c1

ld e,0

ld de,0

ld b,40

.frmlpa:call frmset

inc d

1d a.0

ret

ret

1d b.9

inc hl

inc hl

inc hl

inc hl

pop be

ret

.frmdat:db 0.0.&c1.2

DISC DRIVE

djnz frmlpb

ld hl.frmdat

db 0,0,&c6,2

db 0,0,&c2,2

db 0,0,&c7,2

db 0,0,&c3,2

db 0,0,&c8,2

db 0,0,&c4,2

db 0,0,&c9,2

db 0.0,&c5,2

.frmerr:ld a.&ff

.frmset:push bc

.frmlpb:ld (hl),d

rst 3.selfrm

ld hl,frmdat

rst 3.frmtrk

jp nc, frmerr

dinz frmlpa

routines is that all of these routines are pretty

straightforward in the end. This routine is no

different, as you just call it, and it formats the

when I say it formats discs I really mean it -

don't call this routine with any disc in the

drive other than the one you don't mind

being completely wiped with no hope of

retrieving any data at all. You have been

warned, so don't come crying to me.

disc in drive A. Be very careful, though, as

ld b,40

.verlpa:push bc ld c,&c1 ld b.9

.verlpb:rst 3,secred jp nc, vererr

djnz verlpa

things. First, you can write a single-drive copier receive some stunning serious software. If you don't feel like doing that, you could send in any machine code programming hints, tips, routines, or just about anything else you feel is relevant to Home Assembly at the usual address - the best knowing Dave).

1994 AMSTRAD ACTION

Assembly Line

track, so we can't

disc as a normal

device. The format

for a directory track

is exactly the same.

though, so we don't

really have to make

arrangements when

we're dealing with it.

writing programs.

We all have fun

too many special

AMSDOS filing

store any data on it

if we want to use the

All the machine code disc routine-type commands you'll ever need (apart from the ones you really need but don't exist, but don't blame that on Simon - he just writes the articles, not the programming language).

ell hath no fury like a tape-deck user scorned, but I'm going to risk their wrath by devoting the entire two pages of Assembly Line this month to disc operations. so simple, in such as copying, fact, that it's formatting and only got even verifying. This is the Before we jump straight in at the deep end, we're going

don't we? So, that may not be exactly true, but to have a little re-cap on discs and the way they work with the CPC. this time you've got it real easy - I'm going to do them. One thing I'll stop doing this month is We'll deal with data format discs, as they're simplifying my examples, so if I can take a the format that most people stick with (you can shortcut with anything, I will (within reason). fit 178k on them, as opposed to 169k with a system format disc). A data disc has 40 tracks,

One other point – these are not stand-alone programs, but routines. For the most part, all

you'll have to do is call them and let them run their own way. Before we go any further, there's something else you need to know each of these routines requires a few lines of set-up code before they'll run properly. Those lines look like this:

.setup :ld a,&ff rst 3, setmsg ld a,0 rst 3,setrty ret

Finally, you'll notice that these routines use calls to the disc ROM. To get any of the programs in this article to work, you'll need to insert this little jumpblock anywhere in the listing where it won't interfere with the main program:

.selfrm:dw &c581.7 .setrtu:dw &c603.7 .secwrt:dw &c64e.7 .frmtrk:dw &c652,7 .secred:dw &c666,7 .setmsg:dw &ca72,7

You'll also need to place a 512-byte buffer somewhere in memory, named BUFFER, for a few of the routines to work properly.

Copying

It seems like a good place to start, as we'll be able to recap last month's Assembly Line which dealt with sector reading and writing. Because we don't want to have to deal with loads of messages asking for disc swapping, we'll write an A to B copier, for people with two drives. Next month, Type-Ins will feature a full assembly language copier, with a hex loader for those who don't see the need to assemble it.

This routine does sod all, really. As soon as you execute it, it goes its own sweet way and starts copying, only stopping to say it's finished or there's something wrong.

.copier:ld hl.buffer

BIOS: Select format - &c581

This routine sets up the disc parameter block for accessing a certain format of disc without reading from it. If the disc is selected by AMSDOS normally, it will detect the format itself, but here we want to format a disc instead of reading from it, so we need to use this instruction before writing any new tracks.

On entry, A contains either &c1 (data format), &41 (system format), or &01 (IBM format). On exit, AF, BC, DE and HL corrupt.

BIOS: Read sector - &c666

Reads in a sector from a disc. On entry, HL contains the address for the data to be placed in memory, E contains the drive number (zero for A, one for B), D contains the track number and C contains the sector.

On exit, if everything went okay, the carry flag

is set, A contains 0 and HL is preserved. If there was a problem, carry is not set, A contains an error status byte (forget it) and HL contains the address of the error status number.

Whatever the weather, other flags corrupt, and all other registers are preserved.

BIOS: Write sector - &c64e

This writes a sector to a disc. On entry, HL contains the address of the data to be written to the disc, E contains the drive number (zero for A, one for B), D contains the track number and C contains the sector.

On exit, if everything went okay, the carry flag is set, A contains O and HL is preserved. If there

was a problem, carry is not set, A contains an error status byte (forget it) and HL contains the address of the error status number.

Whatever the weather, other flags corrupt, and all other registers are preserved.

BIOS: Format track - &c652

.coplpa:push bc

.coplpb:ld e,0

ld c,&c1

rst 3, secred

jp nc,coperr

rst 3, secwrt

jp nc, coperr

djnz coplpb

djnz coplpa

ld b.9

ld e.1

inc c

inc d

pop bc

1d a,0

ret

ret

.coperr:ld a,&ff

Oh dear. This one's going to take quite a lot of explaining. All it does is format a track of a disc, but things could get a little difficult. We'll start with the

On entry, D contains the track number, E contains the drive number and HL contains the address of a header information table. This table is set out in an odd sort of fashion with each sector having four

1 - Track number

2 - Head number

3 - Sector number 4 - Log2 (sector size) -7

The track number needs to be updated for every track, by the way. On exit, if everything went according to plan, the carry flag will be set, A will contain zero and HL will be preserved. If things went wrong, carry will be false and A and HL will contain details of what went wrong. Whatever, other flags corrupt but all other registers are preserved.

BIOS: Retries - &c603

This sets the number of retries a user is allowed before the operation is called off and an error returned. On entry, the accumulator contains the number and on exit, A contains the old value for the retry count while HL and F (the flags) will corrupt.

numbered from 0 to 39. Track 0 is the directory

Errors

Though these routines are fairly self-contained, they don't

compensate for any errors during operation (by displaying

error messages or anything along those lines). If there is a

program as the accumulator will not contain

zero. Basically, when the routines

return, if they contain &ff (255), then

something went wrong at

some point along the line.

So now you know.

problem, though, you'll be able to tell from within your

During this spread, we've been using a lot of new firmware routines in the disc ROM. In case you were wondering exactly what they all did, here they are in detail:

BIOS: Set message - &ca72

Turns AMSDOS error messages either on or off, a state indicated by the accumulator on entry. If A contains &00 error messages are enabled, but &ff will turn them off. On exit, HL and flags will corrupt, but all other registers are preserved.

May 1994 AMSTRAD ACTION

Soft-Lok

Written specifically for the Dal

Speedlock cassette protection

Simon fails miserably to come up with any new puns on the word BASIC in his review of a new beginners' quide to BASIC package from Campursoft. It's sad he's even trying, really.

or several months now, we've been unning a BASIC tutorial series in AA. But some people just can't wait from month to month to discover how to access the power of their CPC. Campursoft might have timed their latest release perfectly, then; a BASIC tutorial book accompanied by a disc full of examples so that you can learn what you want when you want.

for the total beginner to use - it starts with making a back-up of the BASIC Idea disc, and goes onto the very first skills you'll need to get around the keyboard, and enter the simplest of programs. From then on, it's Captain Trojan all the way - by the end of it

The book

is designed

all, you'll be producing full animations, decent tunes, and complex mathematical operations. And what's more you'll understand how you've done them. The truth of the matter is that as a BASIC. tutorial guide, this book really has to be something really special to get a glowing review - I'm a firm believer in the ability of anyone to pick up this language by simply experimenting with the odd, archaic symbols and words they

find in listings with the odd reference to the CPC manual. So any tutorial will have to either be extensive in its coverage of the language, or take a hands-on learning approach, making use of the fact that the reader has the mental ability

1997 be Definer Sean McManus

innermost secrets of sprites revealed!

some things out

for themselves. BASIC Idea has got the basic idea - it'd be almost impossible to fully detail every aspect of BASIC and so what the book can't tell you can be worked out with a bit of thought, a lot of

> patience, your manual and skills that the book can give. Having said all that (in an

incredibly roundabout way), there is still a lot that the book covers extensively the main emphasis seems to be on producing things to impress, which means not only will you have

> something leasing at the end of your nad work, but ou'll have earnt a lot of techniques and routines you can use to knock out some pretty mean

Still working...

One thing we can clear up right now is that this book is written for absolute beginners. As the

title suggests, it covers the basics of the language and builds on that. This means that although what we're dealing with is potentially quite complex to a lot of people, you won't be thrown in at the deep end without a rubber ring. In fact, the style is really quite excellent nothing moves too fast, and plenty of explanation is given with every topic covered. Not only this, but the whole thing is structured in such a way that you're not just trying to memorise several BASIC commands and what they do - you'll be using what you've learnt throughout the rest of the book and, by the time you've finished, should know quite a few particular commands, routines, and techniques like the back of your hand.

But that's machine code!

It threw me at first as well – we're happily trundling along learning all about palette switching, when out of the blue pops a sprite handling routine in machine code. The most obvious reaction to this would be to run away screaming, hoping that common bacteria would kill it before it had a chance to take over the planet. It's not quite as bad as it seems, though at no point are you expected to start thinking in a second programming language, as it's all done for you, and presented in neat bundles for you to easily use. You could just think of this as a fairly successful attempt to prove that BASIC is easily powerful enough to suit anyone's needs with the subtle addition of the odd machine code routine here and there courtesy of Campursoft. The point is, you'd be absolutely right.

If you look on this month's covertape, you'll find the AA Toolbox, a set of extra commands to load into your machine and use to turbocharge your CPC. In many ways, this is what

HR#(23)CHR#(ogic:XOR

machine code, but you don't have to step outside the cosy BASIC environment to use it.

It's all on disc

As well as the book, when you open your jiffy bag something else should fall out – a disc, stuffed full of example listings, and bits from the book that were either too long or too boring to type in yourself. This is extremely handy because when you first receive the package, you can have a quick look through the disc and see just what you'll be getting up to in the many chapters to come. Looking through the disc personally, I'm impressed – you potentially clever lot.

Sum it up, Simon

Tutorial books are never going to be a thrill-packed ride – you buy them because you want to know what goes on inside your machine, and you want to be able to use that to your advantage. It's not a wild and crazy time, no. Knowing this, it is difficult to see how Campursoft managed to come up with a tutorial that will not only hold your attention long enough to shove be friendly and straightforward enough that you'll want to swallow

Details

: Campursoft, 16 Slatefield Street, Gallowgate, Glasgow, G31 1UA 2 041 554 4735

with experienced teachers, to teach four- to six-

year olds the basics of maths (simple adding and

n1s one?

ee 15 the same

Shape fun with Dave.

a vesterd

orrect!

حرط to move - Space ا

subtraction), shape

telling the time.

sections are

generally

designed,

logically, so

that children can

get the hang of the

concepts being covered. All

the sections are split into

two parts, with a teaching

section. Everything is clearly explained with the

help of simple graphics and

animation, and the fact that when the

child gets an answer wrong the correct answer

section and a puzzle

well

Simon takes a look at a slightly different way of getting those awkward

s you should be well aware (since last issue's back-up feature), there are copying devices available on the market that'll let you back up your software to disc in case of damage, loss and other

tape games onto disc.

catastrophes. Probably the most popular is the Multiface, which can back-up pretty much any game you're likely to come across. If you don't want to go to the expense of a black box though, there are alternate

solutions on the market, one of which is SoftLok. SoftLok is a package by Rob Scott designed to transfer any games that use the Speedlock

protection system to disc. As the protection system was licensed to several software companies, you'll probably have quite a few games in your collection that could be transferred.

The package itself is nothing amazingly special to look at, as it's designed to do the job with a minimum of fuss. On loading the package you'll be presented with a menu of different transfer routines for the different versions of the protection system you'll come across. Obviously, if you're a beginner in the world of protection systems, this won't be much fun, but you've been fully catered for - you'll find a little database on the disc, listing hundreds of games and which options to use for each. If the game you wish to

transfer isn't listed, fear not - there's also a header reader provided to find out which version of Speedlock you're trying to overcome, which'll happily tell you which option to use.

There's not much you can say about a transfer package, other than whether it works or not. In our office tests, we didn't find a single Speedlocked game that SoftLok couldn't tackle, and the header reader did a good job of clearing up any games that weren't listed on the database. It works, with an over 90 per cent success rate as claimed by Rob himself. By way of a validation, we didn't find a single Speedlock game it wouldn't

ontent copyright 1988/89/90/91 515 Software and HROCHRO 1991. N-trak 3.0 transfer, which pushes Soft-Loc U22 by STS Software 1990 the success rate up to there're bound to be exceptions.

As for the files the package saves out to disc, you shouldn't have any problems -SoftLok either writes out a single 42k runable file or, if the game is a little bigger, a collection of files totalling no more

than about 70k, which can be run with a separate program provided on the SoftLok disc.

If you desperately want a down side to balance this review, the documentation leaves a little to be desired, but the package is so easy to use, you probably won't need it anyway.

In summary, yeah - it works.

PRODUCT: Soft-Lok PRICE: £8.99 AVAILABLE FROM: Campursoft, 16 Slatefield Street, Gallowgate, Glasgow, G31 1UA TO 041 554 4735

Home Teacher

"This software's an education," said Dave. But was he talking Oxbridge, Playschool or Grange Hill?

nowledge is power, allegedly. So watch out when you give a kid an educational program – they'll be planning a household coup d'etat and demanding more pocket money before you know it.

But I don't think you'd be in much danger giving your five-year old Home Teacher. Sure they'd gain knowledge, and, consequently, power, but, hey, a pocket torch uses power, but you're not in much danger of getting overthrown by that. Nope, *Home* Teacher should get them educated enough to be useful, but not so clever they become a danger.

It's a homebrew package (ie, not professionally written) designed, in conjunction is clearly indicated (along with the reason why it is correct) is just what the teacher ordered.

A word of warning, though - this isn't a package you could leave a child to play on their own.

Parental guidance is necessary, and the program even prompts the parent to give

I am worried that perhaps the package is a little mis-aimed. It all seems far too simplistic for most fourto-six year olds. Even if they are a bit slow in the education stakes and need to be taught colours at

the age of five, I'm not convinced that the graphics (the circles only just deserve the name) are going to impress them - by six most kids have seen Sonic, they know what computers can do.

Also, there are no scores which mean that

children can't see whether they're improving which takes away one form of motivation for continuing with the program.

There's also an oddity in the fact that the Numbers section only teaches up to six while the Time section needs knowledge of numbers up to 12. And it asks you your name at the beginning of a session and then never calls you by your name afterwards. Hmmm..

And it's not a very large package, either. For That's more than you'd pay for a Fun School program, and they are undeniably larger and more attractive packages.

Details

PRODUCT: Home Teacher PRICE: £5.99 on tape and disc **AVAILABLE FROM: Pathway Software, 9 Meeting** House Lane, Balsall Common, West Midlands, Nr Coventry CV7 7FX

May 1994 AMSTRAD ACTION

May 1994 AMSTRAD ACTION

Type-ins

How fast can you type in an AA listing without any msitakes? Simon reckons he could do all this month's in under 30 minutes. Wnat to try and beat that?

his month David Hall exposes two of his programs for the nation to laugh at. Well. we would laugh at them, but they're really quite amazing good, actually. In fact, if David doesn't mind sending any more of his stuff down from Manchester, he can do a comeback tour in a few months' time



Helloween

Has anyone ever played the PD classic Croco Magneto? How about Radical's Ball Bearing? If you have, you'll get the

general idea behind Helloween, in which you play a pumpkin who's lost his candles, and needs a light. So guide the pumpkin round the levels collecting the candles, but avoid the spikes, as they hurt.

GADJ 10 . ' . } } . HELLOWEEN . { { { LANH 20.'.directed.by.David.Hall.(c).Oct.'92 LANF 30 · ' · for · Amstrad · Action · Spookzine

IAPI 50 ENV 3,1,15,5,15,-1,1:ENT -1,4,3,2,4,-

HALA 60 ENV 1, 1, 15, 2, 15, -1, 34: sp=32000 IAKF 70.DIM.grid(20,22); SPEED.INK.100.15 OAPM 80 · IF · PEEK (32000) = 0 · THEN · PRINT · "Please · W

ait · . . . ":GOSUB · 780 HAII 90 . MODE . 0 : BORDER . 0 : RESTORE . 1120

ACEM 100 · INK · 0 , 0 : INK · 1 , 14 : INK · 2 , 5 : INK · 3 , 2 : INK .4,1:INK.5,6:INK.6,16:INK.7,15:INK.8,3,2 6:INK · 9, 26:INK · 10, 25:INK · 11, 24:INK · 12, 19 :INK · 13, 18:INK · 14, 9:INK · 15, 3

JANL 110 . PEN . 15 : PRINT . "DAVID . HALL . PRESENTS : " KALF 120 PEN S: LOCATE 2, 2: PRINT "H · E · L · L · O · W · E.E.N"

IAJN 130 CALL sp, 2, 10, 2: PRINT: le=1:sc=0

DDJG 140 PEN 6: PRINT "It is Halloween and Pe rcy·Pumpkin·has···had·his·supply·of····c andles·stolen····(he·needs·them·to··sca re.off.horrible.ghosts.and.witches)"

EDPI 150 PEN 7: PRINT . Without the candlesPer cy·will·be·unableto·keep·himself·lit·all ·Halloween·night·, ·thus·allowing·the·gho uls·to·take·over·the·world·...."

ECEK 160 PEN · 11: PRINT · " · Help · Percy · to · grab · al 1.10.candles.(.)..on.all.3.levels,but.av oid the spikes () as these are fatal!"

CBLG 170 PEN 13: PRINT Play using Up & DownCu rsors.or.Joystick"

IAPD 180 · CALL · sp, 3, 17, 19: CALL · sp, 4, 19, 21

JAHK 190 PEN 1: PRINT "SPACE/FIRE TO START!"; KADE 200 · IF · INKEY(47) <> 0 · AND · INKEY(76) <> 0 · THE LAGA 210 . CLS: PEN . 2: LOCATE . 1, 24: PRINT . "LEVEL: . · · · · SC : " HAKO 220 LOCATE · 1,25: PRINT · "CANDLES: "; FAJN 230 · PEN · 4 : PRINT" · - - - - " HADP 240 PEN 9: LOCATE 14.24: PRINT sc: KAMF 250 LOCATE . 7, 24 : PRINT · le : ca = 0 : READ · leu\$ IACB 260 PEN 1: LOCATE 1, 23: PRINT 1ev\$ CACJ 270 -a=1:b=1 FAPD 280 · f1=0:READ · info\$ HANM 290 · FOR · loop=1 · TO · LEN(info\$) JAPM 300 byte=VAL("&"+MID\$(info\$,loop,1)) KAPH 310 · IF · byte > 7 · THEN · byte=byte-8:f1=1 NAGP 320 · IF · byte=2 · THEN · grid(a,b)=0 : px=a:py=b

KACO 340 grid(a,b)=byte:CALL sp,byte,a,b GAFA 350 - a = a + 1 : IF - a < 21 - THEN - 370 LAIJ 360 · a=1:b=b+1:IF · b=23 · THEN · x1=1:bck=0:G0

HABI 370 · IF · f1=1 · THEN · f1=0:G0 TO · 340

EAHC 380 · NEXT : GOTO · 280 MALA 390 tx=px:ty=py:y1=0:a=grid(px+x1,py)

OAEP 400 · IF · a=1 · THEN · x1=-x1 : CALL · &BCA7 : SOUND · 4,2000,0,0,3,1,0:GOTO-420 DAOJ 410 · tx=tx+x1

MALM 420 · IF · (INKEY(72)=0 · OR · INKEY(0)=0) · AND · p y>1.THEN.y1=-1

MACN 430 · IF · (INKEY(73)=0 · OR · INKEY(2)=0) · AND · p y<21.THEN.y1=1

GADC 440 a=grid(tx,py+y1)

GAPM 450 · IF · a <> 1 · THEN · ty=ty+y1 IAEK 460 · IF · px=tx · AND · py=ty · THEN · 500

LAHE 470 CALL sp, bck, px, py: CALL sp, 2, tx, ty KAFL 480 px=tx:py=ty:bck=grid(px,py)

IAGI 490 · ON · bck · GOTO · 500 · 500 · 510 · 570 · 500 · 600 JAHD 500 FOR pause=1 TO 22:NEXT:GOTO 390

HAKK 510 - sc=sc+10:PEN - 9:LOCATE - 14,24 HAPK 520 PRINT - sc: SOUND - 1,50,0,0,3,1,0

GAAP 530.bck=0:grid(px,py)=0 HAJH 540 ca=ca+1:CALL sp, 3, ca+9, 25

NAJF 550 · IF · ca=10 · THEN · grid(ex, ey)=6: CALL · sp, 6,ex,ey

CAJK 560-GOTO-500 HAHM 570 . SOUND . 4,0,0,0,1,0,12:LOCATE . 2,11

HAKL 580 PEN 9: PRINT GAME ... OUER JAPG 590 FOR pause=1 TO 6000: NEXT: GOTO 90

HAJL 600 · SPEED · INK · 5,5:sc=sc+le*100 FAFF 610 · SOUND · 4, 20, 500, 0, 1, 1, 0

JAKG 620 PEN 9: LOCATE . 14, 24: PRINT . sc: : PEN . 8 JACN 630 LOCATE . 3, 10: PRINT . "LEVEL . COMPLETED!"

JAED 640 LOCATE . 4,12:PRINT . "COWABUNGA . MAN!" HABH 650 · FOR · pause=1 · TO · 7000 : NEXT MAMG 660 · le=le+1: IF · le<4 · THEN · SPEED · INK · 100, 1

5:GOTO - 210 LACJ 670 PEN · 1: LOCATE · 3, 16: PRINT · "CONGRATULAT

LAOM 680 PEN 2: LOCATE 2, 17: PRINT - "HALLOWEEN I

LAPL 690 PEN 3: LOCATE 2, 18: PRINT UNTIL . NE XT.YEAR"

FAHI 700 ·a(1)=20:a(2)=14;a(3)=2 HAND 710 a (4) = a (1) : FOR · loop = 1 · TO · 3

LAIL 720 a(loop)=a(loop+1):INK·loop,a(loop) DADN 730 NEXT - loop

KAKI 740 · IF · SQ(4) < 128 · THEN · SOUND · 4, RND × 400, 80

,0,1,1,0 HAOA 750 FOR pause=1 TO 30:NEXT KAEF 760 · IF · INKEY(76) <> 0 · AND · INKEY(47) <> 0 · THE GAAH 770 · SPEED · INK · 100 , 15 : GO TO · 90 EAMK 780 - SYMBOL - AFTER - 32 IANG 790 FOR · loop=HIMEM · TO · HIMEM + 1000 LABM 800 POKE loop, PEEK (loop) AND PEEK (loop)/ KALJ 810 NEXT loop: MEMORY 31999: store=sp HAMF 820 FOR · loop1=1 · TO · 21 : sum=0 GAGA 830 · READ · code\$, total HAEB 840 FOR · loop 2=1 · TO · 24 · STEP · 2 KAEG 850 value=VAL("&"+MID\$(code\$,loop2,2)) LAMO 860 POKE store, value: sum = sum + value JAHD 870.store=store+1:NEXT.loop2

HANC 880 · IF · sum=total · THEN · 900 KAOO 890 PRINT "Error: line" 860 + loop1 * 10: END GANB 900 · NEXT · loop1 : RETURN HADN 910-DATA-DD460411200021157D1910FD,817

IAKF 920 DATA ESDD460221ACBF1E041910FD.1246 IAMD 930.DATA.1E50DD46001910FDD10E08E5.1155 HALN 940 DATA 06041A77231310FAE13E0884,902 IAJF 950.DATA.670D20EFC90CCC20C04C9820.1288 HAEL 960 DATA 84CC 30200C00000000984084,776

HAOM 970 DATA 4C30400CCC30044C98000000,684 HAKO 980 DATA 000015000050F8FC00F05656,1013 IAEJ 990.DATA.A8A15203A8F4F4FCA8A9A9A9,1997 HAFN 1000 · DATA · A8A10303A85456560000000000, 759 HAHJ 1010 DATA 000041000082410082824100,585

IACD 1020 DATA 828241008282410082A8FCA8,1368 HAJK 1030 DATA A854545400000000000824100,615 IAPD 1040 DATA 82456F6F00158A9F00C70045,1007 NAFO 330 · IF · byte=6 · THEN · grid(a,b)=0:ex=a:ey=b IAEA 1050 DATA 82158A9F00456F6F00824100,934

HAMI 1060 DATA 821020300030003020302020,466 HAEH 1070 DATA 200000000020202010003020.224 HAOH 1080 DATA 302010202000000000010303,167 HAAL 1090 DATA 005252520252525202525252,742

HAMK 1100 · DATA · 02525252025252520252525252,744 HAIN 1120 DATA - "NORMAN BATES - WOZ - ERE" IAFJ 1130 DATA 99999999991480dd 580184948d

JAAE 1140 DATA dddd8849380ddd885041999999 IAIB 1150.DATA.18d5913038880418d5019999189 IADO 1160.DATA.891098ddd58885890d50d51d888

IACO 1170.DATA.09d5802dd58806198888ddd8918 HAMM 1180 DATA 830999388494030999999381909 IALC 1190.DATA.99999904958045051d538859d81 IAHB 1200.DATA.5054050180d9d503505105048d5

IAOF 1210-DATA-9d501d585018d59d80505105880 HAJP 1220 · DATA · d9580150530501884948045051d FAIJ 1230 DATA 54884199999999999

HAJA 1240 DATA · · · · FREDDY'S · REVENGE" IAJI 1250 DATA d9999999959601810101dd9598 IABH 1260 · DATA · 8840480dd91c81858038d539380

IACA 1270-DATA-581010184991cc1815151885419 JAGC 1280 DATA 999915999910dd88dd58898dd0d HAJP 1290 · DATA · dd8809430141514151410149188

HANN 1300 DATA Odd 588380194101415141014101 JAFB 1310 · DATA · 4900ddd80d585988d5888d0d984 JAHG 1320 · DATA · 30d5888dd90c40dd0999999cc48d

IAGF 1330 DATA 980280988859188889318ddd540 IAAF 1340 DATA 391319189999910915948ddd580

FAEF 1350-DATA-395d999999999 IABB 1360 DATA . "JASON . VOORHEES . LIVES"

HAGM 1370-DATA-999910019999148384105188839 HABN 1380-DATA-0d4801051509991059901051588

HAFP 1390 DATA 0490501801059995090d14d1051 HAMO 1400 DATA 488d90d10101051059991014180 HANM 1410 DATA 10515880498010d105999509053

IACH 1420 DATA 101599c480594598d8380dd9054 IAKM 1430 DATA 10d3d4ddd59050101599999593d IAHA 1440.DATA:10251818c01019d10d105145030

HAPH 1450 · DATA · 109405101010518510109851801 HABI 1460-DATA-051051351090531045105105961 HAAM 1470 DATA 0945901010510599094501c4105 IANI 1480 DATA 10d8890d1c4105140dd31999910

DACH 1490 · DATA · 519999

Meteor Storm 3



There are some things man is not meant to do in a reader program. Probably the first and most important thing is not to put parallax scrolling and massive sprites in your game, as it's not possible. Damn - Dave's managed it. Just thing of this as an obstacle race, guiding your ship around asteroids with cursor keys.



KANB 10. '. "METEOR. STORM. III" (C). October. 1990 AAJK 20 ·

MAGH 30.'.a.computer.program.by.David.Hall GAMB 40 . ' . for . AMSTRAD . ACTION

DOMK SO.

KACD 60 · · · "HEY! · YO · RADICAL!", said · Leonardo KAOJ 70 · ' · "RIGHT · ON · DUDE!" , Raphael · replied

IABE 90.'....Mummy Shouted GATH 100.

DAPI 110 · MEMORY · 9999 CABE 120 · INK · 0 . 0

CAMH 130 · PAPER · 0 CAKC 140 - MODE - 0

CAME 150 . INK . 7.1 DAAB 160 · INK · 12, 6, 15

DAPA 170 · INK · 14, 26,0 CAPB 180 · PEN · 12

HACL 190 PRINT Please wait" CAAM 200 BORDER 0

EAEB 210 - store=16000 FAPF 220 · FOR · loop1=1 · TO · 80

CAHH 230 · sum=0 GABA 240 · READ · code\$, total HAPA 250 FOR · loop2=1 · TO · 24 · STEP · 2

KAPF 260 value=VAL("&"+MID\$(code\$,loop2,2))

GAOH 270 POKE store, value FAJO 280 sum=sum+value FAOK 290 - store=store+1

DAOP 300 NEXT - Loop 2 HAPB 310 · IF · sum=total · THEN · 340

LANA 320 PRINT . "Error in line . ";990+loop1*10 BANI 330 · END

EABA 340 · NEXT · loop1

FAJM 350 a \$ (1) = "+ · KeR - SpLaT · + " GAEH 360 a \$(2) = "You made it !"

DAKB 370 · col(1)=12 DAOB 380 · col(2)=14 RAOJ 390 CLS

CAJB 400 · PEN · 11 EAHG 410 · WINDOW · 15, 19, 2, 4

GALB 420 PRINT . "SPACESTORM . . 3" DAHN 430 · PLOT · 444 . 334 . 3

DAPE 440 DRAWR 164,0 DAMB 450 DRAWR 0,52

DAOH 460 · DRAWR · - 164,0 DALE 470 DRAWR 0, -52 FADK 480 FOR · loop=16 · TO · 294

FABA 490 . MO VE . 496, loop, 8 DAHB 500 DRAWR 60.0 DAPM 510 NEXT · loop

EANJ 520 · WINDOW · 17, 17, 8, 20 CAII 530 · PAPER · 8 BAAP 540 PEN 4

FAGH 550 PRINT DISTANCE" EACG 560 · WINDOW · 1,20,1,25

CAEI 570 · PAPER · 0 CAAP 580 CALL 16000 DAMF 590 · LOCATE · 2,17

DAPL 600 · b = PEEK (40000) DALK 610 PEN col(b)

DANJ 620 PRINT a \$ (b) EAEL 630.WHILE.INKEY\$<>"" BATO 640 WEND

EAGN 650.WHILE.INKEY\$<>"."

BAKO 660 - WEND

CACL 670 - GO TO - 390

IAIC 680 DATA CDFF3E2114C522384A212601.1008 IADC 690.DATA.224B46AF32409C21B888061E.1013 IAJG 700 DATA 36002310FBCDB93ECD463FCD, 1351 IAIH 710 DATA CE3FCD0140CD9E40CDC0403A,1485 IAHH 720-DATA-409CFE0028E7C3A7BC3E08CD.1570 IAMD 730.DATA.1EBB201D3E01CD1EBB280B3A.872 IAGF 740.DATA.384AFE2B28043C32384AED5B.1039 HALO 750 DATA 384A21E050062C180A3A384A,739

IACE 760 DATA FE0028EE3D18E8C5D5011000.1276 IADD 770.DATA.EDB0D13E0882573006EB0150.1279 IAGF 780 DATA CO09EBC110E9C921D840DD21,1646 IAHF 790.DATA.204E1600CD0B3F06B07EE6AA,1119 IAKF 800 DATA 4F1F81DD7700DD7710DD237E.1317 IACF 810.DATA.E6554F1781DD7700DD7710DD.1463

HAEN 820 DATA 2323147AFE082008111000DD.768 IAOG 830 DATA 231D20FB10D3C9ED5F47AF3C, 1413 IAKH 840 DATA B928FB10FAC9214F46347EFE, 1557 HAIK 850 DATA 04202B3600DD215046110400.558

IAKD 940 · DATA · C9DD36010018F13E088467FE, 1301

IAEG 860.DATA.AFDDBE012804DD1918F70E50,1242 IAGF 870.DATA.CD3B3FDD7700DD3601C00E03,1152 IAIF 880.DATA.CD3B3FDD7702DD360301DD21.1202 IAJC 890.DATA.50460643C5DD66017CFE0028,1162

IAFD 900 DATA 27DD6E007EFE1020023600DD,1075 IAKF 910.DATA.7E03DD460280FEC7301BDD77,1418 KAJF 80 · ' · "Oh · shut · up · and · go · to · sleep!" IALI 920.DATA.03CDBF3FDD7401DD7500AFBE.1503 HAHL 930 DATA 20023610110400DD19C110C8,780

> HANP 950 DATA C030041150C01910F2C9214D, 1127 IAKC 960 DATA 46347EFE2AC0360011F4012A.1094 IANA 970 DATA 4846282248467CFE00200A7D, 912 IAFE 980 DATA FE1220053E0232409CCDC0BB, 1227

IAAF 990.DATA.AFCDDEBB113400210000C3F9,1335 IAEE 1000 DATA BB21B888347EFE2720223600.1131 IACM 1010 DATA DD21B688AFDD23DD23DD23DD, 1736 IAKH 1020 · DATA · BE0120F5DD3601C00E28CD3B, 1254

IABH 1030 DATA 3FDD7700DD360201DD21B988.1256 IAFK 1040 DATA OE03AFDDBE01285CDD6601DD.1281 IAPG 1050 DATA GEOODD 7E02FE30380B0603CD . 1042 IAIK 1060 DATA BF3FDD7401DD7500DD7E02C6,1477

IAEI 1070 DATA 03DD7702FE30381FD630FE9A.1404 IAPI 1080 DATA 380CFEC8300F3EF9DD960247.1340 IAJA 1090.DATA.1802062F21F04D1816DD3601,751 HACO 1100 · DATA · 001819DD460221E04D111000 . 709 IANH 1110 · DATA · 3E3090193D20FCDD5601DD5E . 1247

IAII 1120 · DATA · 00CDE73EDD23DD23DD230D20, 1311 IAFJ 1130 · DATA · 95C 92A384ACD 29BC 2323E5CD . 1460 IAJH 1140 DATA BO40E1062DCDBF3F060C3E11.1072 IACE 1150 DATA BE30053E0132409C2310F5C9.1073

> IABL 1160 DATA 3E04CDADBCFE80D021CE40C3,1720 HAHP 1170 DATA AABC04000000001C0F007D00,530 HAHM 1180 DATA 0000040E0F28000000040C0D.102 IAKB 1190.DATA.1E3C2800000C0C0E0F3C3C00,303 IACC 1200 · DATA · 000C0D0D1E3C3C00050C0E0F, 234

IAAF 1210.DATA.OF3C3C28040E0F0F1E3C3CA8.541 IAJG 1220 DATA ODODOD1E2D3C7C7C0E0E0F2D.510 IAAJ 1230 DATA · 1E3C3CFC0F0F0F1E3C3C7C7C, 845 IAIJ 1240 DATA · 1E1E1E2D3C3CBCFC2D2D2D3C,890

IABO 1250 DATA 3C3C7CFC3C3C3C3C3C3C3CBCFC.1296 IAHL 1260.DATA.3C3C3C3C3C7C7CFC3C3C3C3C,1040 IAEO 1270 DATA 3C3CFCFC3C3C3C3C3C7C7CFC, 1424 IAPM 1280 DATA 3C3C3C3C3CBCFCFC143C3C7C, 1256

JADB 1290 DATA 7C7CFCA8143CBCBCBCFCFCA8, 1984 IACN 1300 DATA 007C7C7C7CFCFC0000FCFCFC, 1756 IAFN 1310 DATA FCFCFC000054FCFCFCFCA800,2016 HAIO 1320 DATA 000054FCFCA80000000000045,825

HANL 1330 DATA 880000000000459A64880000.595 HAIO 1340 DATA 00009A9A64640000004530CF,832 IANF 1350 DATA CC308800004565CECE988800,1258 IAKP 1360 DATA OOCFCFCCCFCCCC0000CFCF98,1799

IAEL 1370 DATA 65CCCC0000CFCF9865CCCC00,1584 IAHO 1380 DATA 00CFCFCCCFCCCC000045CFCE, 1715 IAIL 1390 DATA CECC88000045CFCFCCCC8800, 1573 IANG 1400 DATA 0000CFCFCCCC0000000045CF, 1098 HAJL 1410 · DATA · CC8800000000004588000000,545

IAGC 1420 DATA 003000CFCC00300000CF45CE,989 IAKO 1430 DATA CE88CC0000CFCFCECECCCC00.1780

IALK 1440 DATA 00CF8ACECE44CC0000CF00CE.1442 IAGI 1450 DATA CE00CC0000CF00CECE00CC00,1233 IAKB 1460 · DATA · OOCFOOCFCCOOCCOOOOOOOO45,891

Typing listings

If you've never typed in a listing from AA before, then reading this following blurb is a **REALLY GOOD IDEA.**

 Basically, all you need to do is type in exactly what we print **EXCEPT** the first four letters in each line • The first four letters are a code which work in

conjunction with our unique and utterly excellent TypeChecker program below. • Only press RETURN when you get to the end of a command line. If a command line goes on to two lines do not press RETURN at the break

in the line. Your lines on screen should break in

exactly the same place as they do in the mag.

TypeChecker

This is a program that enables you to check whether you have typed AA listings in correctly. Type it in, then SAVE it for future use. So, when you want to type in an AA listing, and you want to double check that you got it right:

Load up TypeChecker.

Type NEW.

• Type in the listing of your choice. • When you've finished type LIST.

• At the end of every line a highlighted code will appear. It should correspond with the code printed in front of the same line in AA. If it doesn't you have typed in that line incorrectly.

PAML 10. '. TypeChecker. V1. 0. - . By . Simon . Forrest er · - · Dec · 1992

MAOJ 20. '. For . Amstrad . Action . - . Public . Domain DANK 30 MEMORY & SFFF

CAJK 40 csum=0 GAME 50.FOR.addr=&A000.TO.&A05B

DAKJ 60 · READ · byte\$ GAJB 70.byte=VAL("&"+byte\$)

FACF 80 POKE addr, byte

GAFB 90 · csum=csum+byte DALK 100 · NEXT · addr

OACI 110 · IF · csum < > & 2ADD · THEN · PRINT · "Checksum Error": END

LAHE 115.POKE.&A001,PEEK.(&BB5B):POKE.&A002,P KAHI 120 POKE &BB5A, &C3:POKE &BB5B, &3:POKE &B

RSC. &AR MACN 130 PRINT · "TypeChecker · V1.0 · Installed" : E

MABC 140.DATA.CF,FE,93,FE,0A,CA,00,A0,F5,C5,D 5,E5,FE,0D,CA,22 LACJ 150 DATA AO, 5F, 16,00, 2A, 5A, AO, 19, 22, 5A, A

0,E1,D1,C1,F1,C3 LAFJ 160 DATA 00, A0, 3E, 20, CD, 00, A0, 3E, 18, CD, 0

0,A0,2A,5A,A0,7C LADI 170 DATA CD, 45, A0, 7D, CD, 45, A0, 3E, 18, CD, 0

0,A0,21,00,00,22 LACN 180 DATA SA, A0, C3, 1B, A0, F5, E6, 0F, C6, 41, C

KAJC 190 DATA 1F, 1F, 1F, 1F, C6, 41, CD, 00, A0, C9, 0 0.00.END

Turning TypeChecker off (it is automatically initialised when you RUN the program above) and back on again is quite simple: POKE &BB5B,0 To turn it off

POKE &BB5B,3 To turn it back on again TypeChecker was an Amstrad Action presentation brought to you in association with Hairy Happening Productions Ltd.

When it comes to the stars, you ask Patrick Moore. When it comes to plants, you ask David Bellamy. When it comes to Blake's Seven, you ask a psychiatrist. When it comes to Public Domain software, you ask Keith Woods.

Cubulux 2

By Dominique Liard

People involved in the CPC PD scene are really quiet, thinking types, you know. Don't listen to all the talk about drink, fornication and wild, wild parties that you read about in demos - it's all just a front. No. there's nothing a scener likes better than to spend hours on end straining the old grey matter, with the aid of his trusty CPC and a decent puzzle game. And, as if to prove this point, here's yet another puzzler from the

So what's this one then? is it a p me? Surely not...



French coder and fanzine editor. Dominique Liard.

Cubulux's concept is refreshingly easy to get to grips with, which is no bad thing, as all the instructions for it are in French. All you have to do is match up blocks of the same colour to make them disappear. Simple.

Er, no, actually. The game might begin that way, but you'll soon find that you can't move blocks around the playing area, you can only swap their positions. Half the screen is always

people play this?





Woll, would you credit it? It's a PD puzzio game. That makes a change...

blank, and it's impossible to move any of the blocks onto a blank spot. So if you inadvertently destroy some blocks in the middle of a line, you'll usually find that you've completely separated two matching blocks, and you'll have to start again.

Clever level design means that it's difficult to prevent this problem, so you'll need to give careful consideration to every move. But, you're constantly being hurried along by an imposing time limit. This gives the gameplay a nice balance, as it forces you to take risks.

Overall, it's not a bad little puzzler. It will keep you happy for a while, at least until the next in the unstoppable flow of puzzle games is released.



Forcefield **By David Hall**

Cruising along in your spaceship on your way home to Earth – after a long mission in a far off galaxy - you take your eyes off the windscreen for just a minute and fumble around beside your seat for another tape. You always knew that this stupid habit was bound to get you into trouble some day, but never in your wildest dreams did you think that when you looked back up again, you'd be faced with the



most feared obstacle known to space travellers – the mythological Forcefield of Death.

You panic. No-one has ever encountered the Forcefield and lived to tell the tale, and you don't fancy your chances of being the first, especially since you've only got five bombs left on board. At least, though, they're of the particularly endurable bouncing variety; as the 100 layers of the forcefield are made up of many different squares, forcefield from the many unsuccessful attempts each of which have to be destroyed separately.

You gather yourself together, take a few deep breaths, and



launch your first bomb. Using your special controller, you guide its movements as it bounces quickly from one square to another, destroying each one it touches. Once you've started the process, you have no opportunity to slow it down, so with sweat rolling down your forehead, you concentrate on your formidable task.

Your biggest problem is the gaps left in the to destroy it. You can't afford to let any of your five valuable bombs disappear through these gaps into the vast,



of Beieesus, on his mum's rua

By/ Merlin J. Bond of Magicsoft:

What this program does is, as the title suggests. get around the need to have your multiface plugged in when you're reloading material saved with the multiface.

It does this by creating a new file for loading the data into memory. It works perfectly, up to a point. That point is 64k, as it won't work with anything that was saved in 128k format.

This program is most useful for people who've bought a high capacity drive without a side-switch and would like to transfer all their old tape games to disc, as the standard multiface files don't work with many such drives. For them, it's an absolute must.



This'll be a puzzle then. Who's churning 'em out?

empty masses of space. But all too quickly, you find that such wastage becomes inevitable (sounds like a metaphor for modern life - Dave).

Just a few layers into the forcefield and you start to get really desperate. You've only just begun, but you can already

see your chance of survival slipping away at an alarming rate. Brief glimmers of hope appear in the form of extra bombs and squares that slow your bombs down to a more manageable pace ('Holy Moses' as opposed to 'fwaaargh'). You also notice that one part of the myth about the disastrous consequences of dropping bombs off the edge of the forcefield no longer seems to hold true. But the odds remain stacked against you – because there are



few booby-trapped squares, and devices which speed your bombs up or confuse your controls.

As you watch your very last, precious life slip away with the last of your bombs disappearing slowly into the distance, you remark dryly to yourself that you can easily see why no-one has ever managed to break

the forcefield's 100 layers. Indeed, you'd be surprised if anyone managed more than 10. C'est la mort.

PUBLIC DOMAIN

Fraggle MOPS up

niliar to you, as he is the man sponsible for many of the Public Domain's most popular games, among them Puzznix Jumpmania and Crazy Snake. A 21-year-old nan, Fraggle lists his non-CPC hobbies s playing badminton, mountain biking and tening to music. So what have he and MOPS been getting up to recently? We

When was MOPS formed, and why? MOPS was formed a short time after 993's Cebit Party (in Hanover - Dave). The lea came from GWM and Face Hugger. We decided that it would be best if it wasn't as embers should live reasonably near to ach other. Everybody tried to think of a name, and Jaysoft came up with MOving ixelS, which we all liked. There was no ajor reason for forming the group, it was eally just for fun!

Do you ever find it difficult to come up with new game concepts?

No. not really. Most of my game concepts re borrowed. The idea for Atomic was aken from a 16-bit game, Atomino: Logistic from Popcorn, and Puzznix from Puzznic – a game still available for the PC. The reason I coded Puzznix was ecause I ordered a copy of Puzznic, but ever received it – so I decided to code a ersion of my own

Which of your own games would you say is your best?

y best game? They are all a little bit don't be so modest! eith) Okay okay I think Jumpmania is ny best game technically. Puzznix has the best game concept and Crazy Snake has e greatest playability (despite the fact at it took me the least time to code ist two weeks).

What productions have you and MOPS got in the pipeline? Well, our next release will be the MOPS-

emo. In the last few months I have learnt ssembler, which I used to code my first vo demo parts. The demo will also include parts from Face Hugger, Jaysoft, Ablaze and MOD

Do you think that you will ever leave the CPC?

I'm sorry to say it, but yes, in the next few onths I intend buying an Archimedes. owever, I think I'll still do things on the PC too, as I love this compute

May 1994 AMISTRAD ACTION

The Examine

Oo-er, missus, the adventure column goes X-certificate as Debby Howard takes a peep at a game that gets the euphemisms flowing. Don't say you haven't been warned.

7 CENSORED

The Eunuch's Ball

Price: £2 on tape or £4 on disc.
Available from: The Adventure Workshop, 36
Grasmere Road, Royton, Oldham Lancashire, OL2 6SR.
Crossed Cheques/Postal Orders payable to: PM Reynolds.

WARNING. This game is for adults only and should not be bought by anyone who is easily offended.

One fine, summer's morning, you wake up to find a letter from your easy time. Examine everything will help you find what you are Uncle Edan. Opening it, you quickly read the contents. It

tells you that something important has been stolen from Uncle Edan's place, and it is your task to find and retrieve that item. He dare not even identify the object by name; but you will know it when you recover it. Since you have been promised rewards beyond your wildest dreams if your recover it, you quickly set off.

This is a GACed text-only game written by Phill Ramsay. It has previously been released by Dragonsoft (c), or at least a variation on it has; the Dragonsoft game was by the same author, but apart from the same scenario, the game are completely different.

This version is quite large for a GACed game with

approximately 87 different locations to explore. That's certainly enough for you to be kept busy on a few rainy days.

It is quite rude in some places, so don't order it you get offended by by all that sex stuff, but if you don't mind a bit of *Confessions*—style bawdiness you'll probably enjoy matching up the objects to the puzzles.

You will have to go looking for some objects, so don't expect an asy time. Examine everything will help you find what you are

looking for especially if you find yourself in a field. I could find only one location from where you couldn't return so (here's a hint) save your position before you leave the altar.

It's worth the asking price, if you're not a beginner. If you are, then be prepared to ask for lots of help.



Where to go If you're looking for new and re-released

If you're looking for new and re-released adventures, drop these people a line (enclosing an SAE) for their latest stock lists.

Adventure Workshop, 36 Grasmere Road, Royton, Oldham, Lancashire, OL2 6SR.

Amstrad Adventure Solution Service, 10 Overton Road, Abbey Wood, London, SE2.

WoW Software, 78 Radipole Lane, Weymouth, Dorset. DT4 9RS.

Cluepot

Continuing from last month, here are a few more hints for Five On A Treasure Island, courtesy of Stephen Bosco.

Five On A Treasure Island

- 17 Get spade, ignore onion.
- 18 Go back to Julian and company.
- 19 Go north, west, north. Ignore the dark and just type GET TORCH then go south.
- 20 East, up, then go to the spare room and examine the bed, get matches.
- 21 Go to the aunt and uncle's bedroom and get the batteries.
- 22 Go down.
- 23 Go to uncle Quentin's study and out through the french windows; you can examine and read the books if you want.
- 24 Go to the shed and get the rope.25 Go out of the cottage and then go
- south to the beach.
- **26** When you get to the fisherman's place, Alf will be waiting.
- 27 Talk to Alf and he will get Timmy.
- 28 Become George and enter the boat.
- 29 Row boat until you get to Kirren Island.
- 30 Pull boat up to the top.
- **31** Go to middle of the island.
- **32** Eat cake then get crumbs. To be continued...

Lords & Ladies of Adventure

If you're stuck on one of the games listed below, the person listed next to it will be willing to give you a hand (because they've already completed it, y'see). If you write to them please remember to enclose an SAE with your enquiry and DON'T ask for a full solution, as you'll probably be disappointed. If you want to become a Lord or Lady please write in with a list of the games you've completes

- Most Amstrad Adventures The legendary Joan Pancott ☎ (0305) 784155 from 1pm to 10pm.
- Adult 2, Boredom, Can I Cheat Death?, Doomlords 1-3, Dungeon, Escape, Firestone, Jason & The Argonauts, River, Spacy, Tizpan,

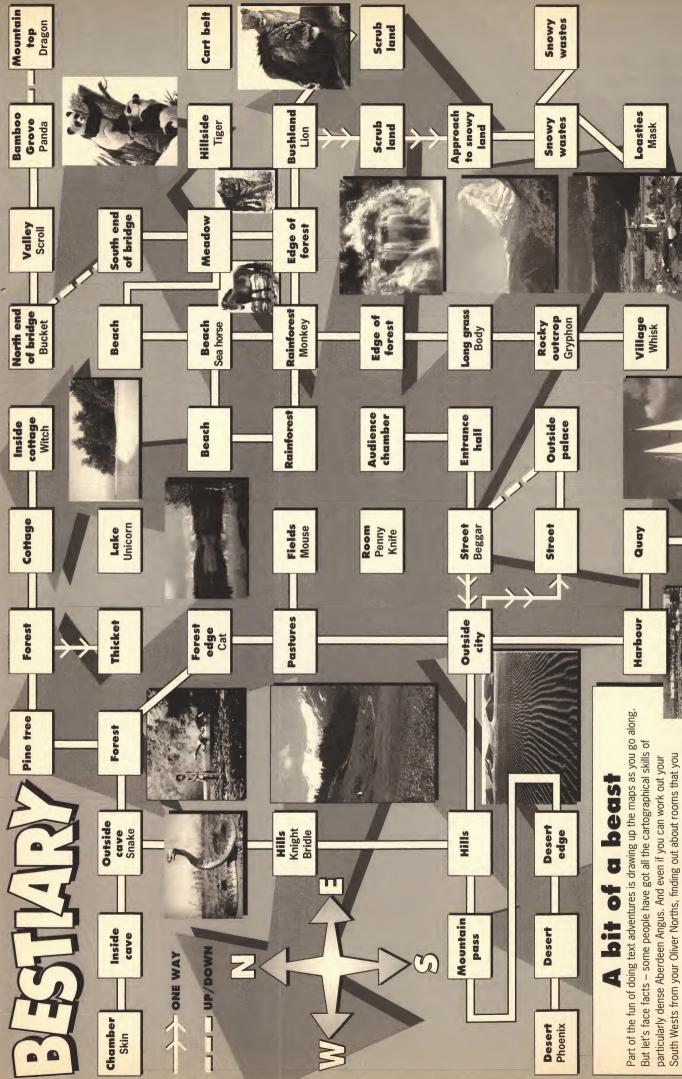
Welladay – Stuart Mainland, 2 Douglas Road, Coylton, Ayr, KA6 6JJ.

- Avon, Forest At
 World's End, Hollywood
 Hyjinx, Kobyashi Naru,
 Mordon's Quest,
 Scapeghost Angela
 Allum, 22 Point Royal,
 Bracknell, RG12 7HH.
- Mrightmare, Kobyashi Naru, Rebel Planet, Who's Afraid Of The Balrog? – Ross Younger, 3 Cammo Parkway, Edinburgh, EH4 8EP.

Here are some Ladies – we're not too sure what's happened to the Lords.







Q. What's large, hairy, difficult to understand, and lurks scarily around the AA offices every month? A. Richard Fairhurst's Techy Forum column (we lied about the hairy bit).

Techy Forum

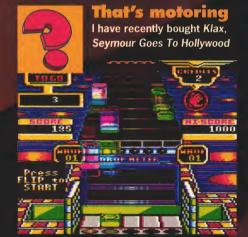
I've lost my key Is there any way to bypass the 'Press any key' bit when you want to load a program from tape? I want to create a

loader program (with picture), then load the main program from this without having to press the key to start the tape again (I'm using BASIC).

R Hotchkiss, Telford



Simple: you put an exclamation mark at the start of the program name. So, instead of RUN"GAME", you would use RUN"!GAME". Richard



and your Exolon covertape for my 464 Plus. The problem is that after the program has loaded, the cassette motor keeps running, only stopping at the end of the tape. This does not seem to affect the

DF: RFT for DF.

to re-align the stack pointer and to enable

2 A quick way to clear the screen is to disable

interrupts, re-align the stack pointer to &0000.

and keep pushing zeros to the stack. Don't forget

3 Don't use SET b,A, but instead OR n, in which n

RES b,A, use AND n, in which n is the complement

4 To find the value of the program counter (PC

contains the bits to be set. Similarly, don't use

of the byte which contains the bits to be set.

register), type CALL findpc, which is this very

simple subroutine:

findpc: pop hl:.ip (hl)

running of the latter two

I If you want to do a JP (BC) or

a JP (DE), just use the stack: type

in PUSH BC: RET for BC and PUSH

games, but in Klax, every time a tile falls off the conveyor, the solenoid for the cassette motor clicks on and off repeatedly. I have returned the tapes and the replacements have been exactly the same.

Do you think this is a software fault, or perhaps a fault in my computer (most tapes load okay on every attempt), or are these tapes incompatible with the Plus? Is there any kind of POKE - Multiface or otherwise that will switch off the solenoid, and will it damage my computer to run a game with the solenoid constantly "on"? Colin Waldron, Glasgow



There's nothing wrong with leaving the cassette motor on during a game; it won't hurt your Plus at all. It could be a Plus incompatibility problem, but it's

not one to worry about. The Klax problem is more worrying. It might be an intriguing use of the motor as a sound effect generator, but it sounds more like a far less interesting case of Plus incompatibility (the design of the chip used to turn the tape motor on and off is one of the more significant differences between the CPC and the Hus machines).

It's not a good idea to let the motor click on and off like this. It could overheat, leaving you with a nasty repair bill. You could give up on Klax altogether (don't – it's too wonderful a game to ever stop playing, and I wish a plague on Richard for ever suggesting you should do such a horrible thing – Simon), or ask a friendly electronic repairman to modify the connection to the motor relay so that it stays on permanently (they could even wire in a handy little switch for you to operate). Richard

5 For those of you who want an

with the BASIC arctangent function, they are:

Do other readers realise that any games which

load in blocks can be transferred to disc using the

JL-Copy program (covertage 22 from AA88)? Did

you know that it is possible to load a binary file of

Also, I am able to offer help with some BASIC

problems, so I would be most grateful if you could

Carl Thomas, 3 Monmouth Way, Barry, South

no more than 22k into Devpac? I have found it

very useful for finding Multiface pokes.

10 DEF FNasn(sine)=ATN(sine/SQR(1-sine*sine))

20 DEF FNacs(cosine)=ATN(SQR(1-cosine*

cosine)/cosine)

print my address.

Glamorgan CF62 9AE

Adrian Lybaek, Canada

arcsine and an arccosine function to go



Is it possible to transfer files from the Psion to the 6128 and vice versa? Alan Robinson, Brough



The Psion isn't actually PC compatible, but it can be connected to one using the universal standard for linking computers, RS232 (as in the

Spitting Image song of the same name). This basically means that you can link two computers with a cable which allows you to send data from one to the other. Most PCs have an RS232 interface built in. The CPC doesn't, but you can buy one from Siren Software (£29.99, 061 724 7572) or Avatar (£39.95, 0274 602180).

The one thing you will need to check is that the Psion can send its word-processor files in ASCII format — which simply means pure text. with no embellishments such as bold and italics. Its default is to send RTF (Rich Text Format). which is a standard used in the PC and Macintosh world for transferring files with such information intact; unfortunately, no CPC programs support it. Check your manual before you splash out on a serial interface, though - you don't want to waste your money. Richard

This month's entry for your toolbox is a simple command called IPUTKEY. It harnesses a feature of the Amstrad which you can't normally access from BASIC - the ability to pretend that you've pressed a key (you can only use it once before you read a key again, mind you).

10 MEMORY &9FFF

20 FOR n=&4000 TO &4026

30 READ a\$: POKE n, VAL("&"+a\$)

40 NEXT n: CALL & A000

50 DATA 21.09.A0.01.0D.A0.C3.D1

60 DATA BC,00,00,00,00,12,A0,C3 70 DATA 19,A0,50,55,54,4B,45,D9

80 DATA 00,DD,6E,00,DD,66,01,23

90 DATA 5E,23,56,1A,C3,0C,BB

I found this very useful recently while writing a database. I tested for keys being pressed with INKEY\$ (CTRL-S to save, CTRL-L to load, that sort of thing), and if the key was a character between

Serial: part 2 1 I was very pleased to see

Mastercalc on the covertage. But when I load it in from disc (it was transferred using

the tape-to-disc utility supplied), I get the message, 'Is the serial interface to be used?' Is this my computer playing up, or is it something I am doing?

- 2 I recently purchased a second-hand Protek modem. Is there any way of connecting it to the Siren Software serial interface I also own?
- 3 Can you recommend a good (and fairly cheap) modem, as the Protek cannot be used for auto-dialling?
- 4 How far apart can I put computers when connected by an RS232 interface? I have been told it is about three metres. Gary Firth, Halifax



When the disc version of Mastercalc loads, the first thing it does is set up all the ROMs connected to your system; Protext, Utopia and any disc

operating system fitted, for example. There's a ROM inside your serial interface, and during its set-up process, it asks you whether you will want to use its full set of facilities, hence the prompt. Reply N, because you don't need serial interface facilities from within a spreadsheet (if the program doesn't work, try disconnecting your serial interface)

2 It depends on what sort of connector the Protek has. Theoretically, it should be RS232 of some kind (see the previous letter), but the

A and Z, the program had to jump straight into the field editing mode, as this was the character to be

Problem: the A-Z key had already been read, and so the consequent INPUT command wouldn't pick it up. Solution: use this command to pretend the key had been pressed again. The syntax is elementary; if a\$ contains the character you want to put back, use IPUTKEY,@a\$. Enjoy.

By the way, if you've got any toolbox routines, you can send them along to Forum or, if they'd be of value to those learning assembly, you could send them to Assembly Line.

connector may vary. It will probably be a 25-pin (count them!) D-plug; in other words, the top is slightly wider than the bottom (or vice versa). If this is the case, you need a standard RS232 computer to modem cable, which your local computer shop should be able to supply.

- 3 Cheap in modem terms means around £80. Check out Micro Mart and the big fat PC magazines for adverts; it's well worth it, because the money you spend on a fast (2400 baud) modem will be saved in terms of the shorter time you have to spend connected.
- 4 That's about right, yes. Much more and you might start having problems. Richard



A question

I'm writing a multiple-choice question and answer program to help with a 'rules test' that I have to endure at work.

I have made the program pick the questions at random, but the trouble is that sometimes it picks the same questions three or four times. I thought my prayers had been answered when I bought AA98, as I noticed a letter in Techy Forum entitled \$64,000 Question that seemed to mirror my own problem. Not being a very experienced or knowledgeable programmer, though, I was completely stumped by the gaps in

210 IF a\$(a)=? THEN 200 220 n#=a#(a): a#(a)=?

lines 210 and 220:

Please could you fill the gaps for me? I know they're for when a blank string is picked, but I don't understand how it works. Also, I would like to eventually have about 300 questions, and, on running the program, I would like it to pick 40 questions at random. Is there a way of scrambling the questions so that they are not always in the same order?

Is there any way I could go back to the questions I got wrong when the quiz is finished, so that I can look them up? I realise I am probably asking the impossible, but any help would be deeply appreciated. Chris Efthimiou, Milton Keynes



The gaps in lines 210 and 220 are meant to be empty strings. The program has to first of all read the questions into an array (a\$), and then pick a question

number at random (a). Once it's read the

Up the creek? Then we've got the paddle

If your CPC's got you in a technical jam or a programming pickle, Techy Forum is here to help you out. Send your questions or tips to: Technical Forum, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW. You know it makes sense



question, it blanks it out from the array, by changing it to a blank - this is what a\$(a)="" does. In future, if it tries to pick this question again, line 210 will notice that it's a blank, and go hack to nick another one

Picking 40 out of 300 questions is easy. Just read 300 questions into the array a\$ (probably from DATA statements), and then pick 40 random questions out of it using a loop such as:

500 FOR n=1 TO 40

510 a=INT(RND*300)+1

520 ...deal with the question here

990 NEXT n

You'll probably want to put in the piece of BASIC that avoids repeated questions at around line 520.

To jumble up the multiple-choice answers, just swap random answers around a couple of times. If there are four choices - r\$(1) to r\$(4) this will do the trick:

600 FOR n=1 TO 10

610 a=INT(RND*4)+1: b=INT(RND*4)+1

620 i = r = (a): r = (a) = r = (b): r = (b) = i =

630 NEXT

If you're working like this, you'll need to store the correct answer as a string first of all, not a number, because which number goes with which string will get mixed up when you shuffle the questions around.

Finally, the best way to remember which questions you got wrong would be to define an array - call it wrong\$ - and, every time you make a mistake, get the program to put the question in the array. You can then go back at the end and, on the basis of this array, print out all the questions which you got wrong. Here's how you could do it:

100 incorrect=0 "No wrong answers so far" 700 incorrect=incorrect+1 "One more wrong

710 wrong\$(incorrect)=n\$ "Store the question

1000 PRINT "You got these questions

May 1994 AMSTRAD ACTION

TECHY FORUM

1010 FOR n=1 TO incorrect 1020 PRINT wrong\$(n) 1030 NEXT n Hope this helps! Richard

on screen

1 How do I store the hexadecimal bytes of a certain section of the screen memory in BASIC DATA statements, so that I can load tand save them with disc?

- 2 How do I create graphics such as sprites in machine code? If I used a sprite designer to create the sprites, how would I use them in machine code (the sprite designer is written by me in BASIC)?
- 3 If I want to write an art package, how do I clear the cursor?
- 2 How do I do the following in machine code? a Store more than one number or value in the accumulator?
- do in multi-load games?
- Check inputs from the joystick or the keyboard, and if there were no inputs, get the program to move onto the next command?
- d Operate five radio-controlled servo motors? The power will come from a power supply, and they are connected to the computer via an umbilical cord.
- Make vector graphics?
- 5 Do you know of a machine code overscan loader for use in BASIC programs? Kevin Long, Cumbria



First of all, let's check that you understand how screen memory works. The top-most pixel line of the screen is stored in 80 bytes, from &C000. The

next one down starts at &C800, and the progression then goes &D000, &D800, &E000. &E800, &F000, &F800, &C050, &C850... and so on. Things change when the screen is scrolled, but we won't worry about that.

So, for question one, first of all you need to find the screen address of each line that you want to save. Store this in the

variable 'a'. You'll also need a variable cline, to store the current line of the program you're writing; start at 1000, say, and add 10 after each line. You can then output a DATA line of b bytes to an open file using the following:

200 PRINT#9, STR\$(cline); " DATA "; 210 FOR n=1 TO b

220 PRINT#9, "&": HEX\$(PEEK(a+n-1)): 230 IF n(b THEN PRINT#9,",": ELSE

240 NEXT n

250 cline=cline+10

- 2 The basic principle of a sprite is that you read bytes from an area in memory and write them to the appropriate screen address. I could waste space by explaining exactly how to code a sprite routine, but instead I'll just refer you to Simon's recent article on exactly this subject in AA101.
- 3 There's a special graphics mode known as XOR mode. This has the huge advantage that if you draw an object on the screen, drawing it again in the same place will erase it. To enter **b** Load a file from tape or disc, like they XOR mode, PRINT CHR\$(23);CHR\$(1); to turn it off, PRINT CHR\$(23):CHR\$(0):.
 - 4 You can't. The accumulator can only hold one number at a time. If you need to store more numbers than this, put them in a variables area somewhere in your program.
 - 4 You need to open a file before you can do anything with it in machine code. To open a file for loading, load B with the length of the filename, HL with its address and DE with the address of a 2k area of memory that you won't mind getting messed up - the computer needs it to store data between getting it from the disc drive and you asking for it. Then CALL &BC77. Opening files for saving is the same, but you should CALL &BC8C instead.

You can then read a byte in one at a time using CALL &BC80 (the byte is returned in the accumulator), or write the value A using CALL &BC95. If there's a problem with this (eg, the end of the file was reached), carry is false on return. Alternatively, if you load HL with an address, CALL &BC83 loads the whole file into memory from that address (the equivalent for saving memory is &BC98; HL must contain the start address, DE the length of the area in bytes, BC an entry address - this isn't essential - and A the file type, usually 2 for binary). Note that you can't

mix &BC80 and &BC83, or &BC95 and &BC98. Finally, to close the file, use CALL &BC7A for

- an input file (loading) or &BC8F for an output file. 4c More firmware calls - CALL &BB09 scans the keyboard to see if a key is pressed. If one is. carry is true and its ASCII value is in the accumulator. If not, carry is false, so you can skip to a bit of the program using ip nc, label. If you use CALL &BB06, the computer waits around until a key is pressed, and then returns its value in the accumulator.
- 4d It depends how they've been connected to the computer. If you're using an input/output port connected to the expansion port, it should have come with appropriate instructions. If you're using the printer port, you can send the character in A to the port using CALL &BD31
- 4e Vector graphics are horribly difficult and complicated, and require oodles of programming skill and probably at least A-level Maths. Stick to something simpler until you're a more experienced programmer.
- 5 There's one available, called Overscan (imaginatively enough), from a PD library near you. Richard



Upgrading

I am thinking of upgrading my 464 Plus and would like to ask:

- 1 Does a 64k RAM pack enlarge the range of software available?
- 2 Is it more advisable to buy a 3-inch or 3.5-inch disc drive, and can you recommend one?
- 3 Can you recommend a cheap printer?
- 4 What does a 40025 upgrade ROM do?
- 5 Do you need a Wave Widget to connect these to my Plus machine? Stuart Neill, Belfast



Yes -/you can then run a wider range of games, and many more serious packages. Remember, you don't need a RAM pack for a 464 Plus, as it

can be upgraded internally; we published a project recently to do exactly what you want (AA90 - back issues plugging Ed), or you can send your computer to Avatar or BTL for them to do it for you if you're a bit nervy about opening up your machine.

2 It depends what you want to do. Commercial games and many utilities are only available on 3inch disc, but 3.5-inch discs are cheaper and you can get PD on them just as easily. It might

be best to buy 3-inch first and then save for a second 3.5-inch drive.

- 3 We've always liked the Star LC series - the current cheap incarnation is the LC-20 - but the Citizen ABC is a good new printer.
- 4 It's for CPC 464 owners, so that their machine has all the extra commands of a 6128. The 464 Plus does anyway, so you don't need one.

5 You'd need one for a RAM pack, but not for anything else. Richard

Britain's on sale 14th



Coveriape queries away a program called Screen Designer on the covertage.

When you save your picture and load it in

again, it stops after it loads in. Is there any way to keep loading and

run another program after it? 2 With issue 92 you gave away BooTracker. There is a fileon the tape called QUICK.BOO. When you try to load it into BooTracker it does nothing. Why is it there and what does it do? David Cash. County Antrim

1 With issue 96 you gave 1 You need to write a short loader program to do this. Say that you want to load a picture called SCREEN from the tape and then run the next program, called GAME:

IN MODE 1

20 LOAD "!SCREEN".&COOR 30 RUN " | CAME"

2 OUICK.BOO is a collection of instruments which you can use in your own tunes, to save you the hassle of designing them yourself. It doesn't actually play a tune or anything like that. Richard

A new kind of leading problem.

An evil waspy fing that's just about to

have its sting removed.



450, is it the platform game to end all platform games? At last Simon Forrester can give you the definitive answer...

kay, we admit it. We were hedging our bets last month in the preview. We wanted to say we liked the game, but we went out of our way to nit-pick, just in case what Radical finally produced didn't live up to the promise of the preview version of the game we saw. All that's behind us now, though, as the long-

awaited Fluff comes under the reviewer's hammer over the next

The game is all about a pink ball of fluff called, funnily enough, Fluff, who's trying to rescue her four children. billed (by the author) as having the best gameplay ever on the CPC. It's here

things get difficult for Fluff. If a game is going for a title like, 'best gameplay ever', it'd be wise to steer clear of such extensively explored genres such as the platform game. Still, there hasn't been a

The power of the press

In last month's preview, Clur, Dave and I all had a chance to comment on what we thought of the



The Pink One gets thrown about by a set of springs as she tries to get to the rail.

I really have no idea what 'churlish' means, so I'll summarise; he decided that though the gameplay gets bogged down occasionally with programming techniques, this is only what the consoles have been doing for years, so that's okay.

Clur recognised an obvious potential in the

game, but still worried about a few elements that might get on her nerves when playing it.

I personally (being a picky little sod) had a few reservations about the movement of Fluff. and the smoothness of some of the animations. The sequel

to the fabulous Elite. namely Frontier. (available on the PC

The big blue wasps can't be killed -spinning just stops Fluff getting hurt. and Amiga right now) is suffering the same problem – its gameplay goes deeper than any other game ever, but it was presented about as well as the Brit Awards. I then went into the realms of propeller head comments, and picked on the programming. I feel sort of guilty for this really, as apparently Rob Buckley then went and reprogrammed a largish chunk of the game. Has it done him any good?

> When you first pick up the joystick and start playing, you'll notice immediately the attention to detail. Whereas many other platformers would



This begs the question, "what the hell am I supposed to do now, then?" somewhat.



content to wander past graphics throughout the entire distinct, unique feel to it. In the

classic platform game style, there's an icy level, an industrial metallic zone and all the against it - you're no more slippy on ice than you are on metal, so it's nothing to knock marks off (or put marks on) for - they're just graphics to liven up the levels a bit.

New improved Fluff

Fluff herself handles guite well (there aren't many times you can get away with saying 'she handles quite well', but I've managed well so far). As opposed to the preview version we saw, the new improved Fluff is fairly heavy, and doesn't have the reluctance to get up to speed that she used to she's still got inertia, but it complements the game instead of getting in the way.

The bad guys are all very straightforward, usually moving in a set pattern within a predefined area, so they're fairly easy to kill, using Fluff's spinning abilities to mash up even the hardest of pterodactyls.

So Fluff journeys through 12 scary, hostile levels, rescuing her four kiddies who repetitively run off at the start of each one. Level one should have been a guest for a playpen, and level two should have rewarded her with a padlock. We wouldn't need to play through the other 10. Of course, such technology isn't available to our pink fluffy thing, and so she's destined to roam 10 more dangerous, torturous levels, rescuing her kids.



She's made it - it's one of her kiddies and he looks pleased to see his mum.



teleports, while others automatically scroll whether you like it or not. But they all have the basic elements of Fluff - platforms, kiddies and lots of decent, old-fashioned gameplay. Breaking the mould of most games for the CPC. Fluff is actually incredibly good fun. It's not faithful to any arcade original, a poor second to a 16-bit version, or a classic game dragged from the mists of time. It's a platform game, and it's fun. That's all.

It's incredibly lush to look at - everything is beautifully drawn, the scrolling's smooth, the animation is wonderful (and Rob Buckley claims it'll be even better by the time it goes on sale), and things move too fast rather than too slowly.

Acid sounds

One part of the game that's been added since we sound. There are no individual sound effects for

either Fluff or the bad guys, theme of sorts: it owes more to industrial-acid-iazz than to normal musical form, but it's a decent enough tune that thumps away in the background.

One of the problems with the preview version was speed – the game

either ran too fast to cope with, or too slow to tolerate. The final version has definitely overcome this problem. There's no slow-down when the screen gets cluttered, and there's no long, boring wait for your little pink valkyrie to get

New material

When programmers start going into the realms

of pink balls of fluff, it has to mean that they're

anyone's thinking of writing a platform game,

Sam Spade, the environmental game – "I

Colander, in which the player has to wash

penalty being having to wash the damned thing afterwards (sounds like you speak from bitter

Mad Woman With Dog, in which you, playing.

the dog, have to jump on someone and tear their

throat out with your teeth within the allotted time

limit, that being the time it takes for the woman

Pro Tourist Sim, in which you have to guide your character through the crowded levels of a beautiful, historic city, stopping at exactly the right moment to make the people behind you panic, try to avoid bumping into you, and fall

saying, "he just wants to play, you know".

vegetables within a certain time limit, the

really dig the earth, man"

experience - Dave).

out into the road.

getting short of material to write games about. If

they might like to consider a few of the following:

The lifts are often the only way you can reach certain parts of the levels.

up to speed.

The level are ingeniously designed - there are secret abundance on later levels, along with with secrets in their depths and all manner of other goodies which

I won't spoil by telling you about. One reason for making each level so different is to give the player a sense that they're getting somewhere; disguising the same objects in different graphical guises isn't going to cut it. Fluff doesn't even try to distinguishing features.

The wait is over

My kingdom for a verdict. There are a few reasons why I'm loathe to give Fluff higher than, ooh – 90 per cent. First, there's a slight problem with the difficulty curve, because the second level sticks out as being too tricky, considering that level three is easier by far. And there are no real original



look at that tree. Craftsmanship, that is.



Fluff, in a spin - the

himself on the spikes (or vice versa).

ideas in the game - everthing's been done before. admittedly not as well, but there's no real hook or gimmick to the game other than its speed and superb graphics. Perhaps some power-ups that gave Fluff some special powers would have given the game that extra spark of personality.

And it's a shame the game's Plus only, but that's one of the reasons it's so damned good; if the game had been written to run on all machines, it wouldn't run as fast or as well - it's Plus only,

So Fluff is an impressive piece of coding that undeniably shows off the Plus at its best in technical terms, and as a game it's certainly hugely enjoyable. But there's still room for better platformer, I reckon. Simon



GRAPHICS

It looks incredibly impressive great artwork, superb animation.

SONICS

No sound effects but a relatively thumping theme tune.

GRAB FACTOR

Doesn't so much grab you as push your face through the monitor...

STAYING POWER

...And the odds are you won't pull it out again too soon.



On your marks, get set, go! Lee Rouane sorts out the healthy specimens from the physical wrecks in an A-Z of the some of the best and worst CPC sport simulations.

3D Pool (Domark)

First class pool sim with all the rules and features of the real thing The game is unique in that you don't control a cue of any kind; instead. you manoeuvre the table to the line that you wish the ball to take. Once you have

grasped the gameplay however, you are confronted with an excellent game made even better by its budget price. 80%

4 Most Super Sports (Alternative) Possibly the worst compilation of

any sort ever with two bad games (Cricket International, Championship Sprint), one of the worst games ever on any format in any parallel dimension TENGEN (Kentucky Racing) and one that doesn't load at all (US Basket

Master). Avoid like Noel's House Party. 25%

California Games (Kixx)

Fun, fun, fun in the sun, sun, sun goes the song and this game has plenty of both. Take part in four events (foot bagging, surfing, roller skating and BMX freestyle) and try to earn loadsa points. Some of the events are wickedly hard so don't expect to pick it up straight away. Good value, though, as each event is a game in itself. 67%

Chase HQ (Ocean)

Maniac Porsche driving antics here, in what has to be the most graphically stunning and playable driving game ever on the CPC. Coupled with the novel feature of ramming the baddies into surrender, this one will certainly have you burning the midnight oil. 90%

Continental Circus

(Mastertronic)

Now this is (even) more like it. Drive your Formula 1 racing car around eight different tracks around the world, whilst trying to keep your car up with the rest in order to qualify. Excellent graphics but the gameplay is what makes this one really shine. Number one for driving fans. 92%

Daley Thompson's D**ecathalon** (Ocean)

This one was one of the first to appear of its kind on the CPC, and in its day, it kicked butt. You

May 1994 AMSTRAD ACTION

have to control Daley in all 10 of the Decathalon events (pole vaulting, swimming, javelin, running at various distances, something with weights and, er, some other things) and apart from the control method - waggling the joystick until you either give yourself a hernia or the joystick

breaks - it was, and still is, a good jaunt. 74%

Hard Drivin' (Domark)

Sports car frolics abound as you do your best to loop the loop and avoid crashing in this stunt track game with Freescape graphics. The whole thing is very playable although the graphics look a bit dull at times. 75%

Harricana (Loriciel)

Take control of a snow-bike in a race against time set in the snowy wastes of the Arctic. The bike is very easy to control, and there's a great feeling of speed. All in all, a good one for the collection, 73%

International 3D Tennis (Palace)

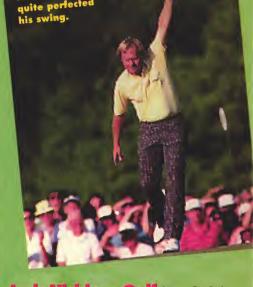
Amazingly real tennis sim where the players look like a pile of triangles, but don't let that put you off. All the usual tennis features are here, but a kind of 'aftertouch' helps you to dip the ball away from your opponent at inopportune moments. Worth every penny. 81%

Italia '90 (Virgin)

Side-view soccer that pushes Italy 1990 close for the top spot of side view footie games. Average graphics but half-decent gameplay make this a must for any fan of this kind of game. 81%

Italy 1990 (Super Sim Pack)

Most soccer pundits viewed this as the ultimate soccer game of all time. but does it cut it with the best of them now? Why. golly hatstands it certainly does, and what's more, for a game that's four years old, nothing has ever really come close to it. Hair-raising overhead/side view action which is made even more enjoyable by the excellent graphics and smooth scrolling. Not to be missed, and a bargain on this particular compilation. 89%



lack Nicklaus Golf (Accolade)

Easily the best golf sim around today, it offers great graphics and gameplay, and the in-game controls are a pleasure to use. Definitely one for the connoisseur. 89%

Janaghir Khan Squash (Gremlin)

Slowish rendition of the closed court classic with average graphics, average

sound and average gameplay. Average really. Yawn. 70%

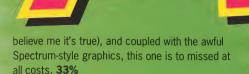
(Impressions) Oh, dear. Oh, dearie me. KDSM is a side-

view affair where you get the chance to play as the red team (Liverpool) or as the blue team (user definable).

The game never impresses as the are near identical

> (quite a feat when they play in different coloured shirts but

players on both sides colours



Kick Off (Anco)

An overhead soccer game that seemed to be the bees knees at the time, but fortunately, many better games have appeared since then. Still very fast, though, and one to pick up if you find it on a compilation, 78%

Kick Off 2 (Anco)

Anco decided to put all of the glitches in KO1's graphics right in Kick Off



2, and the improvement really shows. Incredibly fast overhead improves to near-frantic in two-player mode. Definitely one of the better football sims

around. 86%

Lineker Collection (Kixx)

This is a collection of four games, three being proper 'footie' games and the other being a pointless joystick-waggling, sit-up and press-up training session. Apart from that, the games are pretty good with Lineker's Hot Shot being the bargain of this overhead-view footie pack. 73%

Gary Lineker - proving that all top sportsmen are really, really dull.

Manchester United Europe (Krisalis) 'Ooh ah, Cantona,' goes

the chant for the non-Man Utd supporters among us, and its definitely an, 'ooh ah' for Man Utd Europe with its excellent overhead graphics and slick gameplay. You get the chance to play in any of the competitions in Europe currently operating, and this adds a lot more variety to an already

brilliant game. Shame about the treble, though. 73%

Triple failures - hah

(Gremlin)

Excellent action in one-player mode, but the game comes into its own with the amazing split-screen two-player option. Battle it out with a mate or an imaginary friend in the

ultimate competitive racing game on the CPC at the moment. Amazing stuff. 93%

00

Mega Sports (Kixx)

This compilation consists of Summer Games,

Summer Games 2. The Games -Summer Edition. The Games – Winter Edition and Winter Games, All of these contain accurate renditions of all the events in the summer and winter Olympics. On the whole the games are quite good but prepare for more than one or two horrors among them. For sheer quantity, you can't fault this. 63%

LOTUS ESPRIT

like 500

(CodeMasters)

Mountain Bike 500 aims to cash in on the craze of

the 90s and fails spectacularly. One-colour. Spectrum-style graphics and a horrendous control method destines this game to holding up rickety tables everywhere. 43%

(Encore)

Medal

And now we come to awards time folks, and after a photo finish, here are the results...

Gold Medal

Italy 1990 - This one was no competition really. If you don't already have it, what are you playing at?. Silver Medal

International 3D Tennis - You'll need time to get to grips with this one but persevere, we promise you, it's well worth the effort.

Bronze Medal Jack Nicklaus Golf - Brilliant. innovative, addictive. Get it, now

counts. All the usual tennis stul present, though, making this a all bad offering. 86%

Pro Tennis Tour (Ubi Sol

Brilliant graphics make this one of the better tennis sims available. Perhaps not as playable as International 3D Tennis, but this one feels a whole lot more realistic to play. Good one for the would be Lendls and Beckers among you. 72%

Luattro Power

(Codemasters)

00

Value-packed action once again as the Codies team up Twin Turbo V8 (very good scrolling racer). Pro Powerboat Sim (good beat-the-clockand baddies racer). ATV Sim (reviewed elsewhere) and Moto X (good motorbike scroller - can anybody get past the first obstacle?) on yet another four-game pack. As with all the *Ouattro* packs, value for money abounds. You won't be disappointed here. 81%

Qualitro Racers

(Codemasters)

Another super value pack featuring BMX 2 Sim (BMX obstacle racing), Championship Jet Ski

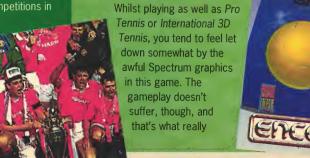
Worst of the worst time now, so please no letters saying that these are the best sport games ever, okay...?

Trevor Brooking WCG - Footy management at its worst with nothing to distinguish this from a BASIC program. Dire. Cardboard Spoon Mountain Bike 500 - Absolutely

hopeless gameplay and graphics make this award well deserved. Toilet Roll Spoon Kenny Dalglish SM - Nothing at all worthy of discussion here. Bin it. Then burn it. Then stab it. Then eat it. Just never, ever play it. Ever.

May 1994 AMSTRAD







(water circuit racing), ATV Simulator (dirt bike stunt racing) and BMX Freestyle (BMX racing again). All of these are quite playable, although none really shine. 67%

Quattro Skills (Codemasters)

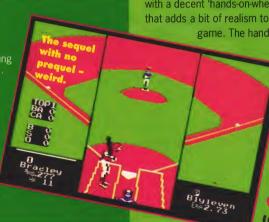
Yet another ingeniously-named pack of four games containing Pro Skateboard Sim (average ride around the course game with the exciting twist that you're on a skateboard), International Rugby Sim (quite good rendition of the sport, if not a bit hard to control), 11-A-Side Soccer Sim (slow-moving overhead jobbie, with more rules than you can shake a stick at) and Pro Tennis Sim (easy to pick up, but unfortunately, even easier to put down). As usual, for the budget price, who cares about one bad game? 78%

Qualitro Sports (Codemasters) Grand Prix Sim, Pro Ski Sim, Pro Snooker Sim

and BMX Sim are all included on this excellent value-for-money pack. None of the games are outstanding, but all warrant an average rating of 70 per cent. Give it a whirl. 70%

(Hit Squad)

A quite simply stunning baseball sim that strangely seems to be the seguel to a game that never existed. Even if you don't think you like baseball, or sports sims. check this one out. 90%



Rad Ramp Racer (Mastertronic)

Take control of either a skateboard or a BMX and use your chosen implement to hurtle over a series of jumps and ramps to try and secure points. The more showy the jump, the better the points. It also features a split-screen two-player mode that enhances the gameplay. Decent graphics and sound bring this game to a slightlybetter-than-average-but-not-so-much-as-you'dnotice-unless-you-were-conducting-scientificbench-tests rating. 58%

Skate Wars (Ubi Soft)

Ice hockey fans are well-catered for here in this futuristic sim. All the features of the real game (punching, fighting, blatant fouls) are present and the graphics are just as good. One to get. 80%

Stunt Car Racer

(Microstyle)

A wild rollercoaster trip in a sand buggy around a nightmare stunt course. The innovative 3D graphics make this game shine out from the rest. Control is excellent and the races are well contested, while not being too hard to complete. There's a slight niggle with the

amount of time it takes the crane to get you back on course after you've fallen off, but

among you. 96%

TO THE REAL PROPERTY OF THE PARTY OF THE PAR it's a top game nonetheless and should be a part of the collection of any self-respecting speed freak

Just like Alton Towers

Supertrux Publisher (Elite)

'Breaker Breaker, one niner, there's a bear on your tail,' is one of the things that you might think better of saying out loud while playing this game. You take control of a juggernaut and you have to dodge, ram and outspeed all manner of obstacles and other computer cars in order to reach the end of the race. Detailed backdrops help the gameplay, and the control of the juggernaut is superb. One to look out for. 63%

Toyota Colica GT (Gremlin)

This game gives you an inside the cockpit view, with a decent 'hands-on-wheel' steering system that adds a bit of realism to an otherwise poor game. The handling is atrocious and

you'll find yourselves, more often than not, taking a trip down the embankment. Don't bother. 79%

(Challenge)

Excruciating, extremely boring text-only (it sounds bad already, doesn't it?) management game with no redeeming features to mention. So I won't. A right load of old tat. Even text adventure fans rightly loathe it with vehemence. 40%



10 sports sims the world is waiting for...

- 1 The Highland Games
- 2 Jack Charlton's Fly Fishing
- 3 Curling
- 4 The Graham Taylor Football Mis-Management Sim.
- 5 The Pro Coronation Street Dominoes Simulator (from CodeMasters, natch)
- 5 Synchronised swimming
- 7 Comeback the Official Frank Bruno Boxing Sim (in which all the opponents are overweight and incredibly easy to beat)
- 8 The Take That Shooting Gallery
- 9 International Barebacked Camel Racing 1 Nigel Mansell's World Championship

World Class Leaderboard (Epyx)

Excellent gameplay makes up for the pretty poor graphics in this offering. The game is very easy to get into, and it also has a host of playing styles to test your expertise. Could do with more than just four courses, though. 76%

World Class Rugby (Audiogenic)

WCR is one heck of a playable game. All the rules of the oddly-shaped balls club are included, and the playing speed of the game can only be likened to Kick Off 2 on acid. Some may find the rules and whatnot

but if you with it, a whole lot of fun will entail.

87%



Wacky Darts (Codemasters)

Like all computer dart games, this one features a floating hand that is always on the move across the board. Your job is to stop the hand in the right place so that it throws the dart where you want it to go (treble 20 usually until you get to the doubles). This game varies on Jocky Wilson in that it has various funny comic interludes. Good value because it's available on the Quattro Fantastic pack. 85%

WWF (Ocean)

Another fine conversion here with its massive sprites and ultra slick animation. Get to fight (or be) Hulk Hogan, British Bulldog or the Ultimate Warrior, A lot of moves are available, and it doesn't take long to master the more important ones. The game gets infinitely better in two-player mode with the action getting a bit too physical in places. 90%

CHUCKIE EGG 2



Always glad to be of service, your beloved AA once again helps out a gamer in distress. Arthur Scott of Ince in Wigan wrote in with a heartrending plea for any pokes for that age-old platformer, Chuckie Egg 2. He goes on to suggest that this is perhaps one game that has beaten the poking minds of AA over the years.

Well, fear no more, Arthur, you can now have as many lives as you want with this poke dedicated to you.

- HAOB 100 · 'Chuckie · Egg · 2 · Cheat
- IABG 110 . Written . By . Lee . Rouane
- GAEM 120. For Arthur Scott
- IAPC 130 · 'Pick · & · Choose · Version
- AAMN 140.'
- IACK 150 DATA 21, 1F, BF, 11, 00, 01, CD, 11, BF, 3E, FF
- IAPJ 160 DATA 32, C2, 67, CD, C0, 85, 06, 0D, D5, CD, 77
- IAPO 170.DATA.BC,E1,CD,83,BC,CD,7A,BC,C9,43,48 IAAD 180.DATA.55,43,48,49,45,20,45,47,47,20,32
- IAED 190.DATA.20,43,48,55,43,48,49,45,20,45,47
- IAMB 200.DATA.47,20,32,20,28,40,43,52,20,46,45 IAPA 210.DATA.42,20,39,34,29,20,20,39,34,29,20

- JAPE 240 READ a : IF a : LCR THEN 270 ELSE 250
- GABD 250 a=VAL("&"+a\$):POKE x,a
- HAJN 260 · x = x + 1 : chk = chk + a : GOTO · 240
- HAJI 270 · IF · chk <> &1A5D · THEN · GOTO · 350
- FAPM 280 CALL &BC02: MODE : 1:CLS
- DACL 290 addr=&BF0A
- KAIL 300 INPUT"Num Of Lives (MAX 255) .? . ", liv
- IACC 310 · IF · liv (0 · OR · liv) 255 · THEN · 300
- FAJG 320 num#=HEX#(liv.2)
- HAJA 330 . POKE . addr . VAL("&"+num\$)
- DABA 340 · CALL · &BF00
- KANN 350 PRINT Data Error Old Bean ... : END

Multiface Poke

67C2,xx

Marauder

Stepping up on the rostrum now is the lovely Chris Parker from Edgefield in Norfolk, with what he describes as a 'great cheat' for Hewson's Marauder.

Chris suggests that at the beginning of the

Sinclair C5s. H's even BBDD 5.'This.wonderful.Lords.of.Chaos.Wizard. designer outlasted *Eldorado*. Yes, It's OAML 6 'was written by David Hood (Disc versi been here since issue one

Bros. It's outlasted

and it shows no sign of

bottling out yet - Cheat

Mode the world's premier

CPC tips and pokes service.

OLLIE AND LISSA

All you Ollie & Lissa fans can now rejoice,

thanks to David Cash from Larne in County

holding down the keys Z and SHIFT whilst

David also informs us that if you find

the keys X, C, U, B, N, U, < and SHIFT will

yourself missing an earlier level, then holding

enable you to decrease levels. Cheers for those

LORDS OF CHAOS

We've got a real treat now for all those Lords

Of Chaos fans out there, and judging by the

massive amount of letters we receive every

month about this game, there are hundreds and

What better to tickle your fancy than an

courtesy of David Hood. Let's all give David a

round of applause for the work that has gone

game you should go up to the flashing light and

extra life. Repeat this on each light and then kill

Repeat the whole sequence again for as

many lives as you could possibly want.

When the light is green, shoot it to reveal an

excellent, comprehensive wizard designer,

playing the game, to skip a level.

David, keep 'em coming lad.

hundreds of you.

into this little lot...

get as close to it as you can.

yourself at the next baddie.

Antrim. If you find that the levels in this game

are just too hard, then follow David's advice by

Lee Rouane is your host.

BAIP 10-MODE - 2 EALH 20.DIM·spell\$(46)

CAML 30 - GOSUB - 180

on)

- CAMO 40 GOSUB · 1430
- JANA 50 mana=&4000; level=&4001; ap=&402F
- IACL 60:stam=&4031:con=&4032:com=&4033
- FAPP 70 · defen=&4034:mr=&4035
- BAPP 80 MODE 2
- EACJ 90 PRINT "E Edit" EALN 100 PRINT . "L . - . Load"
- EACP 110 PRINT "S -- · Save"
- CAAE 120 PRINT
- FAJM 130 · INPUT · "Choose"; a\$
- GAPC 140 · IF · a\$="e" · THEN · GOTO · 440
- GAHD 150 · IF · a\$="1" · THEN · GOTO · 260
- GAAE 160 IF as="s" THEN GOTO 360
- CAFK 170 GOTO 130
- DANN 180 MEMORY & 3FFF
- FALG 190.DATA.21,00,80,0e,C1,16
- GAFE 200.DATA.01,1e,00,df,0d,bf
- FAJC 210 DATA c9, 3c, c0,07,00
- FAAH 220 · FOR · x=&BF00 · TO · &BF10
- GABP 230 · READ · a\$: POKE · x , VAL("&"+a\$)
- BAFP 240 · NEXT CAHJ 250 · RETURN
- BAPP 260 'LOAD
- BALJ 270 CLS
- DAEC 280-GOSUB-1450
- HAIG 290 · INPUT · "Number" ; track
- FAPK 300 · track=track+19
- DANO 310 POKE &BFOD &3C
- FAJF 320 POKE &BF06, track

Addictive fun and very, very green.



May 1994 AMSTRAD ACTION

UN SQUADRON

Here we go with an all-purpose playing guide for that graphically-stunning blast-'em-up, UN Squadron, R (Rambo?, Raspberry?) Hotchkiss of Woodside in Telford reveals all...

Level 1: rating - easy

Even beginners will find this level quite simple. Blast everything that moves. The tanks and small launchers only need cannon fire, but beware of into the scenery well. Use your special weapon on the launcher at the end. Shoot the missile turret and not the vehicle it's attached to. The main weapons are missiles and the homing rocket. Shoot the rocket and avoid the missiles:

Level 2: rating - quite easy

As on the first level, shoot anything that moves, but beware of aircraft that come from behind you. Keep left and centre. The four green bombers before the stealth can be shot with homing missiles, but cannon fire does the job just as well. The stealth bomber, however, can't be shot with homing missiles, as the mission briefing tells you before you start. The missiles home in on the small decoys that the bomber trails behind. The trick is to start firing before it even appears. The last green bomber appears at the bottom, then you

know that the stealth bomber will be arriving at the top. So wait right at the top almost out of sight and keep your cannon blasting. The bomber will fly right into the stream of fire. Guide your cannon fire with the bomber and it will blow up. If it fires, take evasive action. The missiles can trap you in a scatter of decoys which also sap your energy.

Level 3: rating - tricky

Keep low and keep firing. Watch out for mines if you're high up, as they're can't be destroyed. And watch out for the blue planes coming from behind they fire loads of bullets and have no mercy. Use any special weapons, and when the second set of mines come on, the fortress isn't far away. Just pop up and start firing every last weapon you've got. The turrets aren't a big threat, but keep on nailing them with your special weapon until they blow. You can go right across and turn

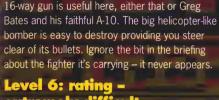
though, as you just going in for another sweep. Two sweeps is usually enough. Hint: use your special weapon when two or more turrets have scrolled into view, then release the weapon in streams until it decides to destruct.

Level 4: rating - very tricky

This level will make short work of you if you don't watch your tail. Enemies sneak up behind and their bullets flow like water. Use special weapons (bombs if possible) on the big choppers that drop in on the scene from the right. They take three or four bombs before they explode. They can be shot with continuous fire, but the bombs do the job faster. Watch out for small launchers and helicopters because they blend into the scenery. When the enemies stop coming, get to the top left and wait for the blue land launcher to appear, then go to work with the bombs. You'll see flashing red squares that indicate a hit - aim for these. The big gun is the most important, as when this blows up, the whole kit'n'boodle goes KABLOOEY.

Level 5: rating - difficult

Don't go too low because the jagged rocks will make short work of you. Shoot everything and watch out for attacks from the rear. If possible buy the 16-way gun, it takes care of all rear attacks. The tall mountains can be shot and destroyed. The big planes



bottom of the screen are tricky because they fly

low and attacking them from behind is risky. The

extremely difficult

Rear attacks, vertical attacks and attacks from above are common. When the blue planes come from the bottom by the rocks, drop a couple of bombs and fire your cannons at 'em. The launchers are the most deadly in this level as they fire when you come past the rocks leaving you imited room to dodge. When the main cave splits into three take the top or bottom route. If you choose the middle, watch out for rear attacks. Keep firing and destroying until the caves form into one again. Two missile grids need bombing. then it's on to the launcher (as in level four).

Level 7: rating - difficult

If possible buy homing missiles and a shield. Use the homing weapons on the ground targets and shoot everything on screen. When the B-52's flock in use homing missiles. Watch out for blue planes. After the streams of B-52s, the big bomber arrives. If you choose to use the homing

EADD 820 . POKE . mana, a

EABL 850 POKE level.a

DANG 880 POKE ap, a

EALE 910 POKE stam, a

950 · RETURN

980 · RETURN

1010 - RETURN

1040 · RETURN

CAAO 1050 · SPELLS

CAPH 1070 · n=&4002

DABF 1090 · LOCATE · 1,2

BAJM 1060 · CLS

BAIL 1080 · a=1

GAGB 900 · INPUT · "Stamina" ; a

940 POKE con a

970 · POKE · com . a

960 · INPUT · "Combat" : a

990 · INPUT · "Defence" :

1000 POKE defenda

1030 POKE mr.a

840 · INPUT · "Level · (1-3)";a

CALJ 830 RETURN

CAOJ 860 RETURN

CABK 890 · RETURN

CALJ 920 RETURN

GAGE

IAPF

CAOJ

FAFK

DALN

CABK

FOMP

DAPJ

CAFM

missile then get right behind it, as it's equipped with a missile jammer which cause your homers to fly right across the screen otherwise. The two Mirage fighters escorting the bomber aren't a major threat as they have no weapons.

Level 8: rating - difficult

The three boats fire missiles and when you're already surrounded by blue fighters it's almost impossible to get out without losing energy. After constant attack from the air a big surprise is waiting. Drop six bombs on it and watch it blow. The battleship, however, needs more attention. Bomb the guns and everything that flashes red. After the first two guns keep the cannon on the ship to blow it up.

Level 9: rating - hard

If you have enough money, buy Big Boys. The things on the rails need four Big Boy bombs before they destruct. If you don't kill them quickly they'll fire deadly missiles. When the mines appear, keep low but not too low. Shoot the launchers and bomb the train launcher. The big gun at the end is a problem but if you leave your plane between the missiles' firing line you'll be able

to shoot undisturbed until the

whole thing blows up.

Level 10: rating – difficultish Time to do battle with the flying fortress. First, shoot the top-most engine then the scroll will take

you up and right along the back of the aircraft. Two huge guns fire at you but your special weapon will be enough to destroy them. Further right small launchers fire at you; they take some destroying. At the front of the fortress more guns and launchers are hidden in some tight places so use your cannon on these. Beneath the plane flying left, a small and a large gun fire at you. The smaller one is difficult to hit but the larger one destructs when the special weapon is fired.

When you're coming underneath the plane on your way back to where you started, fly to your left otherwise you'll be crushed. Finally, blow up the remaining launchers and engines, and then the last battle is against the centre circle thingie that fires at you with missiles. This is not a problem if you have a special weapon left, in which case you return home the conquering hero.





DAAA 330 CALL &BF00 BAFP 340 · 1d=1 CAJH 350 GOTO 80

CAPA 360 'SAUE ABHA 370 · IF · ld=0 · THEN · PRINT · "Nothing · loaded" : CALL . &BB18:GOTO . 50 .

JAKA 380 · INPUT · "Are · you · sure(Y/N)";a\$

EAOP 390 · IF · a\$ < > "y" · THEN · 80

DAAP 400 · POKE · &BFOD . & 3F FAJF 410 POKE &BF06, track

DAAA 420 · CALL · &BF00

CAIH 430 - GOTO - 80 CAFA 440. 'EDIT

Xcel

PAGO 450 · IF · ld = 0 · THEN · PRINT · "Nothing · loaded" :

CALL . &BB18:GOTO . 50 BAMJ 460 · CLS DACN 470 · CLEAR · INPUT

GAKO 480 PRINT C -- Character

FABO 490 PRINT S-- Spells EACP 500 PRINT "E -- Exit"

CADG 510 PRINT

FAMM 520 · INPUT · "Choose"; a \$

GACA 530 · IF · a \$= "e" · THEN · GOTO · 80 GAGD 540 · IF · a \$ = "c" · THEN · GOTO · 580

GAAH 550 · IF · a \$="s" · THEN · GOTO · 1050

CALK 560 GOTO 520 DAAH 570 'CHARACTER

BAPJ 580 · CLS

EAGO 590 PRINT . "1. . Mana";

FAGH 600 PRINT PEEK (mana) FALF 610 PRINT . "2. Level":

FADP 620 PRINT PEEK (level)

IABI 630 PRINT . "3. Action points"; EAOK 640 PRINT PEEK (ap)

650 PRINT . "4. Stamina" FAEJ

660 PRINT PEEK (stam) IAPH 670 PRINT . "5. . Constitution";

FABC 680 PRINT PEEK (con) FAFM 690 PRINT . "6. . Combat";

Infinite shuttles

Stops timer

211112	1 au a statta a mast tria r
EAOM	750 PRINT "9. Exit"
CAKE	760 · PRINT
FAAL	770·INPUT·"Choose";b
JAPN	780 · ON · b · GOSUB · 810 , 840 , 870 , 900 , 930 , 960 , 9
	90,1020
EAAF	790 · IF · b=9 · THEN · 460
CAOK	800 · GOTO · 580

GAMC 810 · INPUT · "Mana · (1-250)" ; a

KALG 730 PRINT . "8 . . Magical resistance";

FAJB 700 · PRINT · PEEK (com)

GADB 710 · PRINT · "7. · Defence";

FAON 720 · PRINT · PEEK (defen)

EANL 740 PRINT PEEK (mr)

o all pilots have aversion to

light? Or are the all blind?

beginning of each line mean in the Type-Ins

Don't panic if you're new to listings. There's a full explanation of how to type in the darned things and what the four-letter codes at the section which starts on page 28.

The Manic multipoke mania zone

Relatively few Multiface Pokes this month, but don't worry because they'll be bouncing back with a vengeance next Issue. Peter Curgenven is our lone poker this month. If you want to impress the nation with your poking prowess.

Game Format Poke, Address Effect Everyone's A Wally Tape 81E1.A7 Infinite lives Xarq Disc 2BE4,C9 Infinite weapons Aftermati Tape **8AR2 FF**

33A4.00

4C2A.00

send your game-busting slices of code to Cheat Mode, Amstrad Action Future Publishing, 30 Monmouth Street, Bath, BA1 2BW. It could the start of something big (but then again, maybe not).

Format Poke, Address Effect 3DC Tape 290E.00 Infinite oxygen Infinite lives 6465,00 Dragons Tape 8727,00 Subterranean Strvker 7D26.30 Infinite lives Tane Captain America 9D2D.30 Stops clock

IAKG 870 INPUT . "Action points"; a 930 · INPUT · "Constitution"; a 1020 INPUT · "Magical · resistance" ; a

FAPB 1100 PRINT "E -- Exit" DAJE 1110 · LOCATE · 1,1 GAFP 1120 PRINT."..... DALE 1130 LOCATE 1,1 FAEM 1140 PRINT spell*(a): DAMG 1150 · d=PEEK(n) FAKC 1160 · IF · d=&88 · THEN · x=8 FAIC 1170 · IF · d=&77 · THEN · x=7 FAGC 1180 · IF · d=&66 · THEN · x=6 FAEC 1190 · IF · d=&55 · THEN · x=5 FAJB 1200 · IF · d = &44 · THEN · x = 4 FAHB 1210 · IF · d=&33 · THEN · x=3 FAFB 1220 · IF · d=&22 · THEN · x=2 FADB 1230 · IF · d=&11 · THEN · x=1 EABO 1240 · IF · d=&0 · THEN · x=0 DANA 1250 PRINT X MAMN 1260 · IF · INKEY(0) = 0 · AND · a > 1 · THEN · a = a - 1 : n = n-1:GOTO:1110-NABB 1270 · IF · INKEY(2) = 0 · AND · a < 45 · THEN · a = a + 1; n =n+1:G0T0:1110: NAMN 1280 · IF · INKEY(8) = 0 · AND · d>1 · THEN · d = d - 17:P OKE - n , d : GOTO - 1110 OAHD 1290 · IF · INKEY(1) = 0 · AND · d(&88 · THEN · d = d+17 :POKE · n , d : GOTO · 1110 GAHE 1300 · IF · INKEY (58) = 0 · THEN · 460 DAHA 1310-GOTO-1260 NAGC 1320 · DATA · GOLD · DRAGON , GREEN · DRAGON , RED · D

Poking the multiface way

1 Make sure you've got a Multiface plugged into the back of your CPC - it helps.

2 Load the game as normal.

3 Press the RED button on the Multiface.

4 Press 'T' for tool.

5 Press '*' to select the code. 6 Press 'H' for hexadecimal input.

7 Press SPACE for input.

8 Type in the address (ie, 3A7C).

Type in the POKE (ie, A7).

1 O Press RETURN.

1 1 If there's more than one poke go back to seven.

12 Press ESC to get back to the menu. 13 Press R to return to the game.

NAME 1330 DATA DWARF, GOBLIN, TROLL, GIANT, CENTA UR. UNICORN 1340 DATA PEGASAS, GRYPHON, ELEPHANT, GORIL

RAGON. PIXIE

LA.LION.BEAR 1350 DATA · CROCODILE, GIANT · BAT, HARPY, GIAN

T · SPIDER, ZOMBIE OAOF 1360 DATA GHOST, VAMPIRE, SPECTRE, DEMON, ST

RENGTH · POTTON ABNC 1370 DATA POTECTION POTION, INVISIBILITY

POTTON . SPEED . POTTON NAJL 1380 DATA FLYING POTION, SUPER POTION, HEA

LING POTTON MAEN 1390 DATA MAGIC FLAME, GOOEY BLOB, TANGLE

UINE, FLOOD MAPG 1400 DATA ENCHANT, SUBUERSION, CURSE, MAGIC · ATTACK

OAOE 1410 DATA MAGIC BOLT, MAGIC LIGHTNING, TEL EPORT.MAGIC · EYE

FALF 1420 · DATA · MAGIC · SHIELD

MADC 1430 FOR n=1 TO 45: READ spell (n): NEXT: R ETHRN

EAFM 1440 · 'Directory

DBAH 1450 PRINT Please insert disc in drive and press any key!"

DAKD 1460 · CALL · &BB18 DAGD 1470 · CALL · &BF00

CAJI 1480 · k=&8033

EAGB 1490 · FOR · n=1 · TO · 20 DAMD 1500 PRINT n;

EAKB 1510 · FOR · x=1 · TO · 12

DAHG 1520 ·a=PEEK(k)

EAEI 1530 · PRINT · CHR\$(a); CAJF 1540 · k=k+1

CAKC 1550 · NEXT

CANN 1560 PRINT" · " CAMC 1570 · NEXT

EADA 1580 POKE &BF02.840 CAPM 1590 RETURN

Tabe

Bargains galore and much, much more in the CPC second-hand superstore. Or, in other words, here are the small ads...

For sale

lome-grown machine code games from strategy to hoot-em-ups. Good graphics and playability. £2.99 plus disk or £4.99. For information send SAE to Kevin Heywood, 18 Sinclair Avenue, Banbury, Oxon OX16 7DW

Amstrad CPC464 computer, green screen monitor oystick, users manual and games. vgc £50 Tel: 0353 861728 (Flv)

Amstrad CPC 6128 colour monitor, disk drive, manual many game<mark>s including Street Fig</mark>hter, Nigel Man<mark>sels GP,</mark> Joystick, ho<mark>me accounts, clip art,</mark> system disks and mags. £100, Tel:0332 345017.

umstrad CPC464 with colour monitor, DDi disk drive, mous multiface disk and tane software/games. Good condition and with all manuals £150 ono. Alan, 061 797 8402.

Amstrad CPC6128 with manual, over 70 games, 40 utility program<mark>s and 20 other programs. A</mark>ll games bo<mark>xed and in</mark> mint condition, over 30 mags \$450 ono, Tel: 0748 834295. Amstrad 6128, disk drive, colour monitor, joystick, games and Star LC2410 printer. All vgc and just £200! Call Colin or Joyce - 0621 859706 (Essex).

Amstrad CPC464, colour monitor, joystick, approx 10 games and games rack, 4 AA's with tapes, manual, £150. Tel: 0384 891833 (Sat & Sun only between 4-7pm). 16 Classic games for sale including Wizball, Wonderboy Fiendish Freddy, Only £25 inc P+P (UK only), Caroline -

Amstrad 464 with monitor, disk drive and over £200 of vare for just £150! will consider splitting. Tel: 0243

Amstrad 6128+, tape upgrade, colour monitor, 60 games on tape/disk, Supercall, Protex, Procopy, Locksmith, joystick nd more £200! Second DD 3.5 duel just £50! Wolfgang -

464 with 6128 chip, disk drive, multiface, 64k RAM, OCP Studio, Music Machine, 200 games, AA mags 61-98, Insider nouse, books. Basically £1000 worth of 6128 for just £320! Chris Beach - 0789 470686.

Classification, Tick box:

ORDER

Nine Sega Game Gear games inc Super Off-Road, Halley Wars, Golf, all boxed, vgc and with instructions just £12 each ono. Tel: 061 969 1847 after 4pm.

Amstrad DMP2160 printer (inc manual) with broken head! Also DMP 200, 4 unused ribbons, AA complete cheat collection book. Mastertronic Master Chess tape and some games. Phone Gerald on 0762 331054

CPC6128, colour monitor, tape deck, joystick, lightpen, over 30 AA's plus tapes, many original games and three programming books, £280 the lot! Tel: 0354 740882 after

Amstrad CPC464, 64k, over 200 games including Hudson Hawk, T2 and Predator. Worth about £450 will accept £321! Dean – 0543 418494.

Joystick Cheetah Bug, boxed and unused £8. Multiface poxed, manual, just 2 months old, bargain at £20. Amstrac TV Tuner will convert colour monitor into TV £18! P+P £2. el: 0376 519360. CPC6128, colour, extra disk drive, Rombox with Rodos.

RS232, Joystick, Soft 968, games, mags, books, utilities and spare disks. £350! Ring 0296 630250 for details. Also a DMP2000 which has a broken leg but still works...

Amstrad boxed, green monitor GT65, around 20 3" disk games worth about £60, but £30 for a quick sale!!! Guildford area Tel: 0483 233392 after 5 30nm

Multiface II £15, Supercauldron disk £10, large selection of other goodies, games on tape and disk, stuff, AA mags utilities! Write to David Platt, 54 Fore St, Buckfastleigh, S Devon (Surely not Nahl)

CPC6128 colour, CPC464 mono, DMP2000 printer, MP1 modulator, Prom Programmer, Rom Board, cassette cable, Soft158 Firmware Specification, Soft157 Basic Specification, Mini Office, DevPac, books, Offers invited on any item. Tel:" 0734 734143 (Wokingham).

CPC hardware /software for sale RS232 Firmware guides, ROM's, books, system disks, serious software and games. Send SAE to J Carter, 4 California Gardens, Little ica, Plymouth PL3 6SZ

CPC464, colour monitor, Multiface II, Rom-Board, with Protext and Maxim 1.5, Stereo amplifier with speakers, joystick, approx 100 tapes, 195 mags, books including Soft 968. No splits! Offers! Steve - 0367 244517

☐ Wanted

For Sale

Advanced programming book on the 464 £5. Also list of games available from Dee Singer, 57 Kent Rd, Parkfields, Volverhampton, WV2 2BB.

Amstrad CPC664, colour monitor, Rom-Board, unfitted 6128 ROM, Maxam on ROM, Firmware manual, Masterfile Microscript, various games and books, £130!!!. Tel: 0704

Amstrad CPC464 - 116 games, many AA mags £95.

I will sell Batman, Ghostbusters, Double Dragon, The Real ters. Quattro adventure and Joe Blade II (no cover!) for just £1 each (all CPC464)! Or I will swap any 2 for Moonwalker, or any 3 for Thunderbirds (must be in good condition). Tel: 0723 863815.

Many games, discs and cassettes, some magazines. Send wants list or SSAE for full list. Reasonable prices for varied titles. SR Laurie, 29 Prior's Hardwick Road, Upper oddington, Northants, NN11 6DW.

Multiface Two £25 plus P&P AMX Mouse and Stop Press £40 plus P&P. The Insider £5 plus P&P. 30 3-inch discs £30 plus P&P. Light Gun plus 10 games £25 plus P&P. Tel 0302

Star I C24-10 24-pin printer in perfect boxed condition

OTHER

Contacts wanted. Any age, sex or country to exchange tips and games on the 464. Cassette only, Contact David Dodds 49 Hassesdean Road, Blackhealth, London SE3 8HR, All

Software wanted for new PD library. It can be anything from adventure games to shoot-lem-ups. Send to s Saunders, 138 Woodbridge Road, Ipswich, IP4 2NS. Can be tape or dis Amszine: a new amstrad fanzine, Reviewed AA99, Only £1 sues 1 and 2 available now. Phone Jonathan on 0663 744863 for details.

3D adventure with Alfa 117, a new dimension for £7.95 inclusive or £3.95 plus a 3-inch disc supplied by you. Cheques to Paul Williams, 8 Heather Close, Worcester WR5 3LX.

FREE

READER ADS!

It's true - you can advertise in

Amstrad Action for NOTHING! It's all part

of our continuing efforts to provide you

with the best value magazine

possible

☐ User Groups ☐ Other

SEND TO: SMALL ADS, AMSTRAD ACTION, 30 MONMOUTH STREET, BATH, AVON BA1 2BW

New Dimensions – fanzine of science fiction dedicated to stamped addressed envelope to 15 Hinsley Drive, Wrexham

Please send PD on tane/disc for tane PD/disk PD EX22 7LA. For disk PD's newsdisc send a disc and an SAE to

Want to buy a new computer, over 18? Then we'll pay you for your thoughts. Want to know more? Send for a free brochure No obligation KA 16 New Watting Street

Impro graphix (not PD). Allows you to improve the graphics of your Amstrad and remove borders. Send £1.50 and disc/tape to: A Payne, 89 Wolverhampton Road, Codsall,

USER GROUPS

WACCI, the UK's most popular CPC club. To find out what it has to offer send a 29p stamp to: WACCI, 7 Brunswood Green, Hawarden, Deeside, Clwyd CH5 3JA.

New! Another World, a new disczine covering serious and PD. Free PD. Send £1.30 plus disc plus SAE to 35 Marlborough View, Cove, Farnborough, Hants GU14 9YA.

Make cheques /POs payable to R Avery Wanted. PD/Homebrew/shareware software for review i Another World, Also wanted fanzines for review, Send

Marlborough View, Cove, Farnborough, Hants, GU14 9YA. SERVICES

Clip Art. Lots of original designs to add professionalism to Meadows Road, Cheadle Hulme, Cheadle, Cheshire SK8 6E. Colour Map of Auf Wiedersehen Monty. Just send two 25n stamps or send SAE for list of original tape games for le to Angela Allum, 22 Point Royal, Bracknbell RG12 7HH CPC Trekking. New fanzine offers reviews, letters and coverdisc. Cheques to: SA Sandhu. Include 3-inch disc for coverdisc. Only £1.50. Great games on coverdisc. Orders ner Road, London SW17 9JN.

An A-Z of games and graphics for sale, Programmed listings and some from 1986 to 1994. IE, CWTA and Amstrad Action, Send SAE to Chris for list, 188 Colcheste Road, Leyton, London F10, 081 556 6919.

15p per disc per side. That's right. Power PD now charge only 15p per selection. Order a catalogue now! Send SAE to Richard Wild, 33 East Lane, Sandiway, Norwich CW8 2QQ.

WANTED

Wanted urgently: AA 87. I'll give issue 99 for it (covertape ne Alastair on 08284 483 after 5pm please Matthew Gullam of Presto PD to Kindly return my order placed with him last October. I would have appreciated an answer to at least one of my letters. Steve 081 669 7792. Wanted, Horsein Around - stables edition, Millionaire and Fruity Frank. Cassette only. Willing to pay £10 for each. Please write to Andy Hudson, 5 Trocadero Court, Normanston Road, Derby DE1 2GR.

Heroquest and Football Manager One. Will swap for Midnight Resistance, Turbo Tortoise or Afterburner. cassette. Wanted for CPC464. Write to Lee Cleary 20 Acacia Avenue, Maltby Nr Rotherham, South Yorks S66 8DS.

Send your letters to: Reaction, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath BA1 2BW To whom it See answer six.

Dear

Sticky problem

Hiya guys, remember me?

Look no breasts this time.

Anyway the reason for my

scribbling - why, oh why

does the most brilliant mag around persist

Why not slip in a blank page inside to

stick the covertape on to? Or even half a

mag having to cut the tape away and so

leaving unsightly pieces of tape behind.

Yes, it is a pain trying to get the tape off the

cover without either ripping the paper

or leaving bits of tape behind. But

PS Any witty remarks, Dave, and I'm ready

John Jones, Northumberland.

and waiting for ya!

it's the price we pay for

unfortunately. We can't

really hide the cassette away

inside the mag, because we

want people to be able to

see it on the shelves at

Besides, if it was hidden

away inside it'd cause a

bulge that'd crease the

pages when the mags

transport or display

on shelves. Besides.

page on the outside -

insidetapes' isn't a very

catchy name. And I'm really

not sure about a blank half-

were packed

ogether for

their newsagents.

having covertages.

page on the outside. It totally ruins the

in sellotaping its covertape to the outside

of the mag?

may concern

I was recently given a second-hand CPC464 with lots of games, I found it

excellent to use but as I'm not very experienced with computers I've got a few problems for you.

I I can't load 4 Quattro Sports by CodeMasters. I can get it to run but the computer always responds with MEMORY FULL. How can I open up some extra memory space?

2 On Yogi Bear I can't jump far enough to cross the streams. How do I do this?

3 Can you use Sega Master System 2 joypads on the CPC?

4 One of my favourite games is Chuckie Egg but I get bored doing the earlier levels. How can I skip the first few?

> 5 What's the best soccer game I can easily get hold of?

6 Should question one be directed at **Techy Forum?** Anthony Saunders, Cambridgeshire.

PS What football team does Simon support?

2 See answer six.

LETTERS

3 You surely can (we tested this one ourselves in the office)

4 See answer six.

5 Check out our sports sim round-up.

6 Yes, and questions two and four should have gone to Cheat Mode, really. Don't worry, I'll pass them on. And from next issue we'll be introducing a new section to Cheat Mode specifically to deal with individual queries like this which'll be called... er... we're not sure what yet. We would

start up a similar section in Technical Forum, but that's what Techy Forum is anyway. Welcome to AA, by the way. Dave

PS Leicester City, the poor sap.

Letter from the colony



1 Corker mag, but how about a wargame on the covertage soon? 2 I think maybe a discography of major

software houses is in order.

3 Loopy Lou's a fine Sheila (yup - he's definitely from New Zealand - Dave), let's have her on the cover, eh? She inspires any man to poetry.

4 Some great servers of the CPC are GDPD, The Vault, Wizard Games and Romantic Robot.

you can imagine our disgust when the news came through to our headquarters

(a bin in the boys' toilets at Dalriada School, Ballymoney) about Street Fighter 2. We have therefore decided to add this to our cause and are willing to lend our support to any local group.

We are at present only a small group but our support is growing daily and with your support and media coverage we can realise our goal and seize power in 1996. Dwylan Daverous (the official letter writer), Ballymoney.

PS Power to the people, power to the nation, power to the human race, power to the CPC.

PPS Thank you.

PPPS We all think you're great. PPPS Our leader thinks Clur is the most beautiful thing he's ever seen.

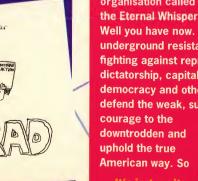
This could be the start of something big, but somehow I doubt it. Dave

PPPPS I worry about his health.

Wot, no questions? Why is it that whenever people write in to

you they just write a list of questions? Can no-one out there write in continuous prose? Are you all illiterate, uneducated buffoons that don't know the meaning of the word paragraph?

I am a member of an insubordinate organisation called The Brotherhood of the Eternal Whisper. Never heard of us? Well you have now. We are an underground resistance movement fighting against repression, suppression, dictatorship, capitalist scum, so-called democracy and other such stuff. We defend the weak, support the poor, give courage to the downtrodden and uphold the true



I'll leave you to dra your own conclusions, thoug hopefully not more picturtes like thi



vouldn't that be just as unsightly as a couple of

bits of tape? Anyway, how'd you like the new

cassette boxes? Smart, eh? Dave

you to decid

May 1994 AMSTRAD ACTION

Write your advertisement here, one word per box. Include your name and phone number if you want them printed.

Services

Please place the following advertisement in the next available issue of Amstrad Action

How about doing a list of all the rubbish games? It'd be better than doing all the good ones? Christopher Hill. Colchester.

That's an idea I like, but perhaps not a list of all the rubbish games – that'd take up a whole issue. The Top 50 all-time turkeys sounds good. Write in and let us know what you reckon are the games that deserve a

Is the cut-down version of DES on disc any good? Christopher Hill, Colchester.

thorough vilification. Dave

Yes – about as good as you'll get on a disc version anyway. Dave

Could you please continue the Trump cards and Separated At Birth in the Power-Up section? James Moyse, Devon.

Yes and no. They're back this issue but not in Power-Up. Check out the new look Next Month page. Dave

I would be very interested in a garden planner either on your covertage or to buy if anyone knows of one which will operate on the CPC6128. Word Processor Fentiman, Birmingham,

Blank faces in the AA office. I'm afraid, so this is one that we'll have to throw out to you lot. Can anyone help WP? Dave

My friend wants to know where Simon gets his hair done Stephen Fraser, Dunfermilne.

Your friend, eh? Oh well, tell your 'friend' that Simon won't trust anyone else to attack his locks with sharp implements, so the big jessie does the job himself Dave (They're

Has anybody produced a hard drive yet? Nautilus Greaves, Hants

Surprisingly, yes, but not Campursoft or Quantum, both of whom at one time had hard drives in development. The only CPC hard drive that was ever actually commercially available was produced in Germany and cost around £140 but only had the measly storage capacity of 16MB, I believe. If anyone else has anymore details we'd love to hear from you. Failing that, who wants to write a hardware project so that you can use a PC hard drive? Dave

5 If any New Zealand CPCers want some great PD send an SAE to the address at the end of this letter. No copy charge.

6 Long live the CPC and may the psychopathic fans of Metallica perish in a storm of iam tarts and ZX81s. Daniel, 32 Killarney Avenue, Torbay Auckland 10. New Zealand.

PS This was letter written at Heathrow groovy, eh?

Hopefully the rather splendid North and South will be appearing on a covertage soon. Will that

2 Hmm, not sure about that one.

3 Loopy's a star, there's no doubt about that.

4 Let's all solemnly raise our glasses to these stalwart suppliers.

5 You heard the man.

6 Ah, but what about the non-psychopathic fans of Metallica? They're the one's you really need to watch out for. Dave



off? You'd better be off home then, lads. Funny that the guy

Not our type

I really do think it's time to put a stop to people sending in type-ins as their own work and expecting some financial reward. If a type-in is genuinely a reader's own and original work, that's okay. But if it's a repeat program - albeit slightly altered - then it

know what is wrong, may I suggest that

line 270 is altered to LOWER\$(INKEY\$),

GM1, GM2, etc, do not understand the

line 290 is deleted and line 310 is

hexadecimal for !, ", #, \$, %, etc.

I refer to the 464 Owners Beware

comment relating to the problem

program on tape 36.

associated with the working of the MENU

I am unable to explain it, but I found

that by altering each of the titles GM1,

Deflated Spacecraft Anthes, Dorset.

amended to f\$="!GM"+ x\$.

With regard to the

problem you were having

with the loader for Graph

Master (AA102), if Simon

and Clur really wish to

should not be claimed his own work and he definitely should not get anything financially, only a kick up the back side. Frefer to Parrot on page 33 of issue 102, sent in by Ray Collins, Perhaps Mr Collins hopes that no other Amstrad user has the book Sensational Games For The Amstrad by Jim Gregory, published by Granada in 1984, a selection of 24 exciting games plus other listings. Lo and behold, if you turm to page 125 there you will find listing number 18 you've guessed it - Parrot. I have been suspicious of many past listings, but this one really got to me, I felt I just had to write in. Frank Briggs, Peckham.

We don't actually give away any prizes for any listings that are printed anymore. Frank, but in theory I agree with you wholeheartedly. When we did pay out money, sending in somebody else's work was tantamount to software piracy. Now it's just plain dishonest. Unfortunately neither Simon or myself have encyclopedic knowledge of

programs on the CPC so some type-ins do get past. Sorry about that. But the typeins section has now changed in emphasis slightly anyway, and Simon chooses the type-ins which are printed for their programming expertise or some wellwritten routines they use, as opposed to the quality of the end product. That's what the purpose of the workshop boxouts is (okay, I know there aren't any this month owing to lack of space but they'll be back). So Type-Ins is now a forum in which programmers can show off their talents. And what's the

point in showing off somebody else's? Dave

We love WACCI (honest)

SIMON AND CLUR ARE THICK!

Further to your comments regarding WACCI on page 9 of issue 101, I would like to comment as follows:

I have only been a computer user (Amstrad 6128) for the last

GM2, GM3, etc to G1, G2, G3, etc and also

amending line 310 of the MENU program

itself so that "GM"+ became "G"+ and then

completely inexplicable reason created by

the MENU program itself the 464 alters the

titles GM1, GM2, etc to read GMG and

for. The problem must result from the

program itself, because on running the

10 f\$="GM1" (or GM2, or GM3, etc)

the associated miniprog loads and runs

quite correctly as you will no doubt have

Amplified Mandarins Drake, Newcastle

found. A weirdo

Upon Tyne

cannot therefore find what it is searching

resaving, the problem disappeared.

It would appear that for some

READERS' TOP 10

1 Flite

2 Prehistorik 2

3 Super Cauldron 4 Titus The Fox

5 Lemmings

6 Rick Dangerous 2

7 Purple Saturn Day 8 Smash TV

9 Emlyn Hughes International Soccer 10 Italy 1990

Napoleon Bonaparte, Billinghurst, Sussex.

Right, from now on, if you just give us your initials, or, even worse, you don't give us your name at all, we'll make one up. You have been warned. Great Top 10, by the way, Boney. Dave

couple of years so I am still a beginner. At a friend's recommendation I joined WACCI. They have been a tower of strength to me particularly Clive Bellaby who has helped me on numerous occasions; he came to my house and repaired my keyboard, he answers all my telephone queries with the utmost patience and whenever I have needed anything new, he has either obtained it for me at a reasonable price or told me where to obtain it. WACCI has saved me a lot of time and money. This group has kept me interested in learning and encouraged me to keep trying. So I think your comments are most unfair.

Apart from that one little moan, Keep up the good work. Angry Reptile Hardwick, Walsall

MARCH 1994

Let's get this straight - AA thoroughly, wholeheartedly and unreservedly recommends WACCI to anyone who is seriously into the serious side of their Amstrad. It is a great user

Yes Simon and Clur are thick. Well, it's not their fault. Owing to a bug in Locomotive BASIC 1.0 (only used on the 464) you can't use RUN f\$ directly. So change it into uppercase or use any other function on it, eg, RUN UPPERS. Problem solved. David Long, Demon PD

Last month I was skint so I borrowed the AA covertage. I was amazed to find that the menu wasn't protected, as usually the menus are. When my mate Frank told me that the menu didn't work I had to find out why, but for the life of me I couldn't figure out why. I have just one thing to ask - why do you protect the menu last issue, we never took these things seriously So sorry for any offence caused, but surely there's some room for some friendly rivalry? Can we drop this now, please. Dave Have you seen this disc?

I have an old AA covertage (from around about issue 19) with Type-Ins and a

Sugarman loading screen on one side and a Tasword-compatible spellchecker on the other side. Can you please tell me under what filename it runs and how you use it with Tasword?

Julian Grumbridge, Birmingham.

group that serves its members

superbly, and we have never disputed this fact.

Occasionally, though, they take little swipes at us

and we take little swipes at them, but as I said

AA and WACCI get along fine (hi, Clive).

PS may I add that I have been an avid reader of your magazine since issue 16 and it has never been better than it is today. PPS Also I have been trying to get hold of Prince of Persia on disc for ages - I have Amstrad GPC 464, GPC 6128, GPC 464 Plus tried both mail order and

other retail outlets but have been Serious unsuccessful. Can you help me with this too?

> One day we'll manage to create covertape that works completely on every model of CPC. One day.

system anyway? Adam Cartwright, Lincolnshire.

PS Don't say a word about farmers.

haven't protected a single loader yet – you were in machine code, not BASIC. Simon

D.I.Y.F.X

We're really sorry about this, but we're a bi confused. There was no spellchecker on a covertage around issue 19 and back in those days we never offered tape-to-disc transfers anyway. Our second thought was that you might mean covertage 19, but that didn't have the programs you mentioned on it either. Feel free to send us a copy and we'll try to sort this out for you. Dave

LETTERS

PS Gee shucks, thanks, PPS Normally my answer to this one would be, use our Reader Ads service' (see page 46), but there is a problem in this case. Prince of Persia s such a good game that nobody ever wants to sell it (except for me, I find it really boring). Then again you might be lucky and find some traitor who's trading in their CPC for some other computer who has a spare copy of PoP up for



Prince of Persia, everybody loves it, except Dave who falls asleep at the mention of it.



grabs. Give it a try.

CORNER The Amstrad world's on

its last legs.

Or so the softies think. But never fear, 'cause Fegg is here. About to raise a stink

How dare they not write SF2. Upon the CPC. When everyone like me and you Would buy it instantly?

So listen up, here's Feggy's plan To make them all take note: We gather every Gremlin man And kick them in the throat.

We'll get the guvs from US Gold And halve them down the middle, If Ocean don't do what they're told We'll roast them on the griddle.

And finally - this is no joke -A plan that's quite bizarre. We'll bring out AA's Hairy bloke, And loose him on guitar.

And e'en if they chop off their ears As Simon plucks and strums, Our secret weapon then appears. Dave Golder on the drums.

Doctor Fegg, Hiding from the police in the Venezuelan foothills

1ay 1994 AMSTRAD ACTION

May 1994 AMSTRAD ACTION

Future Publishing Limited, 30 Monmouth Street, Bath, BA1 2BW Tel: 0225 442244 Fax: 0225 446019

Editor Dave Golder Art Edito Ollie "haven't I been here before?" Alderton The Happening Simon Forrester Debby Howard, Lee Rouane, Rod Lawton and Keith Woods Cover photography by Ashton James

Ad Sales Executive Robert Bennett Not quite a publisher Jim Douglas
Publisher Colin Campbell **Heavenly Being Greg Ingham**

Production Lisa Read **Lino and Scanning** Simon Chittenden, Jon Moore, Chris Stocker, Simon Windsor Jason Titley, Mark Gover, Brian Hook Ad Design Cherry Coad Tel: 0225 442244 Circulation Manager Jon Bickley, Tel: 0225 442244

© Future Publishing Ltd 1994 Amstrad Action is an independent publication. The company producing it – Future Publishing Ltd – has no connection with Amstrad plc. We cannot guarantee to return material submitted to us, nor can we enter into personal correspondence. We take great care to ensure that what we publish is accurate, but cannot be liable for any mistakes or misprints. No part of this publication may be reproduced in any form without our explicit written permission.

Printed in the UK



'Your guarantee of value'

This magazine comes from Future Publishing. Here's what we can offer you:

Beffer advice. Our titles are packed with tips, suggestions and explanatory features, written by the best in the business. tronger reviews. We have a cast-iron policy of

orial independence, and our reviews give clear buying

Clearer design. You need solid information fast. So our designers highlight key elements by using charts, diagrams summary boxes, annotated photographs etc.

Greater relevance. At Future, editors operate under

Understand your readers' needs

readers' contributions, resulting in the liveliest letters pages and the best reader tips. Buying one of our magazines is like joining a nationwide user group.

Better value for money. Magazines you can trus

Home of Britain's finest magazines.

ore Format • PCW Plus • PC Gamer • PC Plus • PC Answers • PC Commodore Format • Fow Plus • For Gainet • Orlins • Format • Senga Format • Amiga Format • Amiga Format • Senga Format • Senga Format • Senga • Format • Senga • GamesMaster • Mac Format • Edge • Future Music... and also Classic CD • Mountain Biking UK • Cycling Plus • Needlecraft • Cross-Stitch Collection • Caravan Plus and many more

Amstrad Action recognises all copyrights contained in this issue. Where possible we have acknowledged the copyright holder. Please feel free to contact us if we have failed to credit your copyright - we will be happy to correct any oversight.

Member of the Audit Bureau of Circulation Jul '93 - Jan '94

AMSTRAD ACTION May 1994

Are you ready for

You've heard hints, you've heard rumours. **Next month get the** facts. The amazing multi-player blast-'emup from Germany will hit our shores soon and AA's where you'll get the exclusive preview. Be here.

Plus: Deliverance on the covertape, extended games tips coverage, a joystick splitter hardware project, and all the usual features. And It's coming out on...

Thursday

SEPARATED AT BIRTH?



Blanka from Street Fighter 2



Jack Nicholson from Wolf

Jolly Jack goes into method mode for his new stateside film Wolf (it'll be here soon) but we reckon that the erstwhile Joker would be a dead ringer for the big guy Blanka in a Street Fighter 2 film.

Do you know of anyone who looks like a famous games character? Send your suggestions to: Separated at Birth, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW

NOW A TOTAL MOUSE/ **GRAPHICS PACKAGE FOR YOUR AMSTRAD** AT A TRULY UNBEATABLE PRICE!!



Genius Mouse

COMPLETE WITH



>>>>> SPECIAL OFFER PACK!!

- Genius Mouse is a high resolution two button mouse featuring optical counting, teflon guides, microswitches, rubber coated ball and high quality interface.
- When combined with OCP Advanced Art Studio this graphics package is quite simply the best system available. The features are unmatched...
- Create an image shrink it, expand it, move it, rotate it, copy it, colour it, etc., etc
- Spray patterns or shades, make elastic lines stretch and manipulate shapes.
- Zoom in to add detail in fine mode.
 Full cut and paste facilities plus excellent printer support.
- Pulldown/Icon driven menus for ease of use.
 Mouse operation, plus joystick and keyboard control.
- 16 pens, 8 sprays, 16 brushes so flexible anyone can create superb graphics easily.

COMPLETE WITH MOUSE INTERFACE



- The Genius Mouse Graphics System comes complete with the special Mouse Interface to allow super smooth control.
- Attractively styled to match your 464 or 6128 design and colour. Simply plugs into Expansion/Joystick port.

TOTAL PACKAGE INCLUDES GENIUS MOUSE. INTERFACE, OCP ADVANCED ART STUDIO PLUS FREE MOUSE MAT AND HOLDER

TAPE OR DISK FOR 464 OR 6128 (PLEASE STATE WHICH REQUIRED) N.B. 464 NEEDS DK'TRONICS 64K RAM PACK

FREE!

MOUSE MAT AND MOUSE HOLDER (WORTH £12.99) WITH EACH PACKAGE



LC 200 COLOUR PRINTER PACKAGE

NOW YOU CAN PRINT OUT YOUR PICTURES IN FULL COLOUR!

- The Star LC200 Colour Printer not only prints in Near Letter Quality for your regular jobs but also prints out your pictures from Art Studio, etc., in genuine colour!
- LC200 is a full Centronics printer so it works with other computers (Amiga, ST, etc.)
- Made possible by Datel's unique colour printer driver now you can have a hardcopy in up to 16 colours!! • No more to buy - just plug in and print!!

PACKAGE INCLUDES... STAR LC200 COLOUR PRINTER RRP £299.00 CENTRONICS PRINTER LEAD RRP £9.99 DATEL COLOUR PRINTER DRIVER SOFTWARE RRP £19.99

COMPLETE PACKAGE NOW ONLY £239.00

COLOUR PRINTER DRIVER AVAILABLE SEPARATELY ONLY £19.99

If you already have an LC10 or LC 200 Colour Printer we can supply the Driver separately



- Simple plug in memory expansion gives instant extra memory
- Features bank switching software for easy use by the programme or for use as a data storage area.
- Ideal for use with the CPM 2.2 etc.
- The software also features some extra BASIC commands.
- 64K unit expands 464 to 128K.
- 64K unit brings 464 up to CPC 6128 memory configuration making a much larger software base available. Will work straight off with many programs designed for this unit (including OCP Art Studio see Ad.).
- Bank switching done automatically by software (cassette 464).

ONLY £49.99 64K FOR 464



HOW TO GET YOUR ORDER FAST!

TELEPHONE [24Hrs] 0782 744707 CREDIT CARD ORDERS

ELECTRONICS VISA

GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT. ST4 2RS, ENGLAND. FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324

222, TOTTENHAM COURT RD, LONDON, W1. TEL:071 5806460

DATEL LONDON SHOP